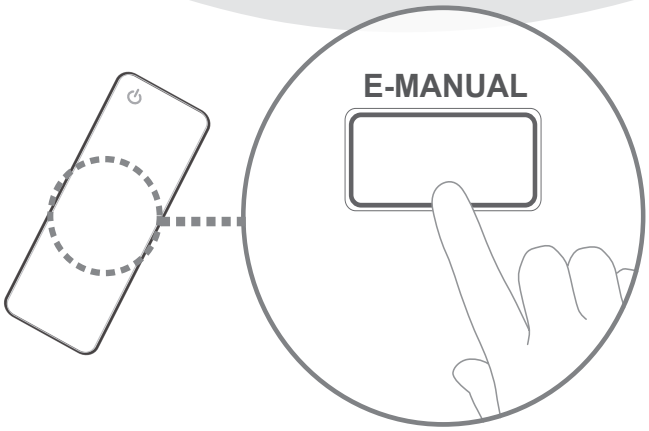
BD-H8500/H8900
BD-H8500M/H8900M
BD-H8500N/H8900N
BD-H8500A/H8900A
BD-H8509S/H8909S

E-MANUAL



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www.samsung.com/register

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Troubleshooting

Connecting to a TV

Except for H8509S, H8909S model

For H8509S, H8909S model

- Depending on your model, rear panel may be different. For more details, please refer to the user manual of product.
- The RF cable connection of this product sends only signals of TV. You must connect the HDMI cable to watch output from your product.
- If you use an HDMI-to-DVI cable to connect to your display device, you must also connect the **Digital Audio Out** on the product to audio system to hear audio.
- Depending on your TV, certain HDMI output resolutions may not work. Please refer to the user manual of your TV.
- When you connect the product to the TV using the HDMI cable for the first time or to a new TV, the HDMI output resolution will be automatically set to the highest supported by the TV.
- A long HDMI cable may cause a screen noise. If this occurs, set **HDMI Deep Colour** to **Off** in the menu.
- If the product is connected to your TV in the HDMI 720p, 1080i, or 1080p output mode, you must use a High speed (category 2) HDMI cable.

- HDMI outputs only a pure digital signal to the TV. If your TV does not support HDCP (High-bandwidth Digital Content Protection), random noise appears on the screen.
- Do not connect the power cord until you have made all the other connections. When you change the connections, turn off all devices before you start.
- If connecting with 2 RF cables from the same satellite dish, you can watch and record different channels. Twin LNB is recommended. Set "Aerial Connection Type" to "Dual" in the Broadcasting option. For H8509S,H8909S model
- If connecting with one RF cable, you cannot view second channel while recording a channel. Set "Aerial Connection Type" to "Single" in the Broadcasting option. For H8509S,H8909S model

Connecting to an Audio System

Method 1: Connecting to an HDMI supported AV receiver

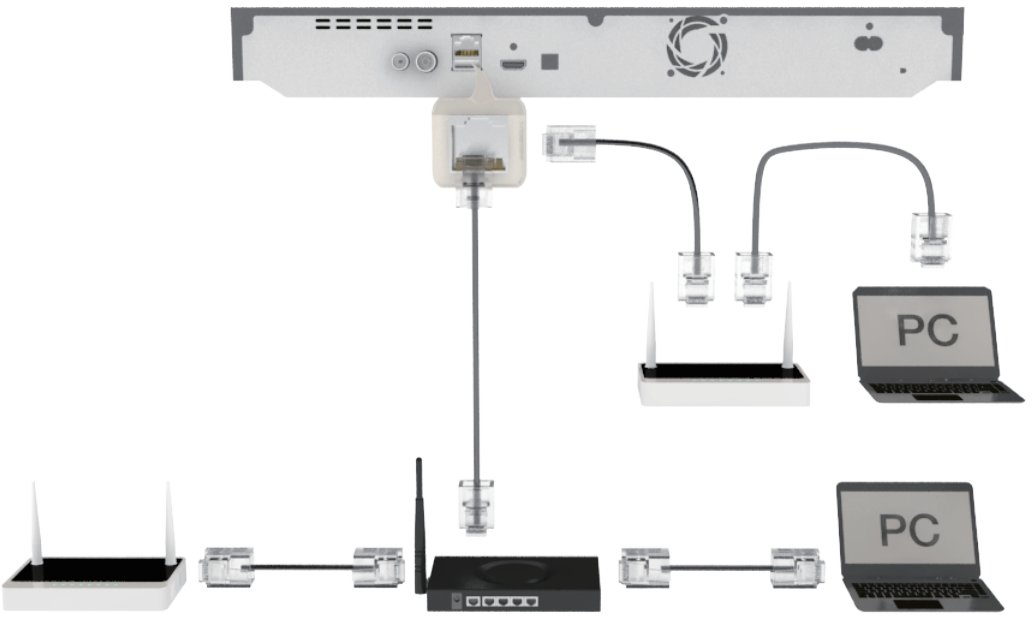
Method 2: Connecting to an AV receiver with Optical input

- After finishing the connections, press the input selector of the connected audio system and TV until the video signal from the product appears on your TV and you hear the audio signal through your audio system.
- Do not connect the power cord until you have made all the other connections. When you change the connections, turn off all devices before you start.

Connecting to a Network Router

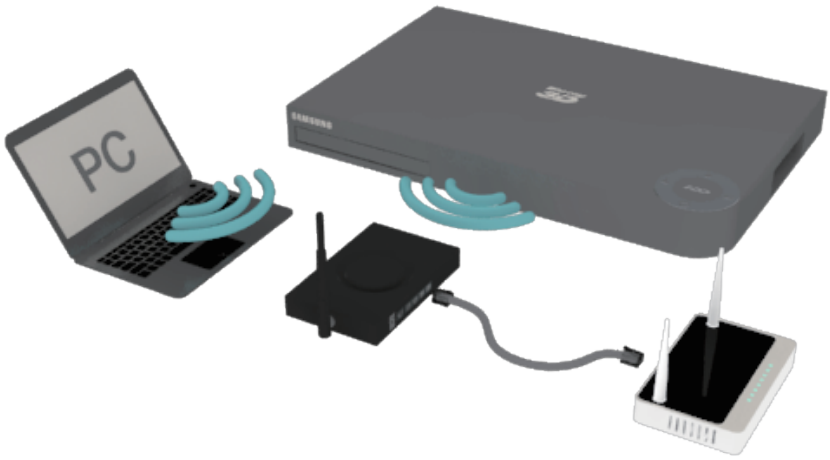
You can connect your product to your network router using one of the methods illustrated below.

Wired Network



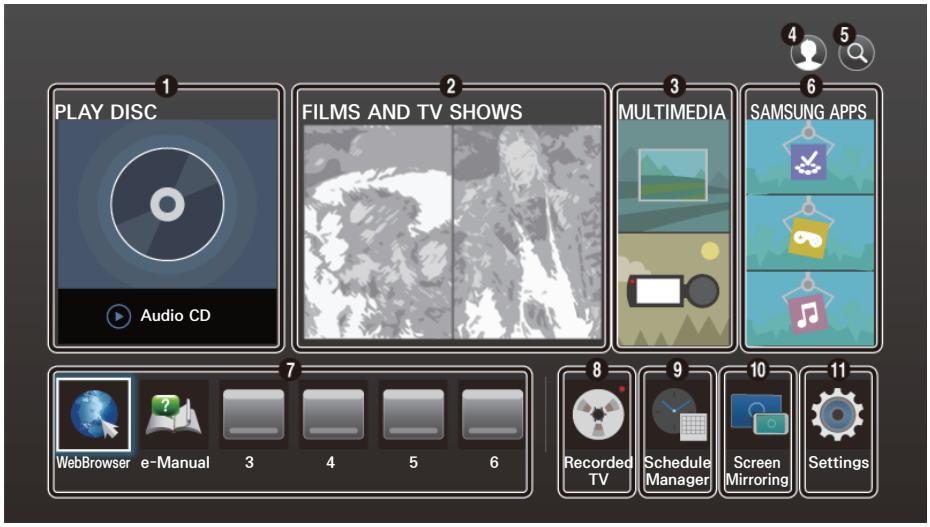
- Internet access to Samsung's software update server may not be allowed, depending on the router you use or your ISP's policy. For more information, contact your ISP (Internet Service Provider).
- For DSL users, please use a router to make a network connection.

Wireless Network



- If the wireless router supports DHCP, your product can use a DHCP or static IP address to connect to the wireless network.
- Set your wireless router to Infrastructure mode. Ad-hoc mode is not supported.
- The product supports only the following wireless security key protocols: WEP (OPEN/SHARED), WPA-PSK (TKIP/AES), WPA2-PSK (TKIP/AES)
- Select a channel on the wireless router that is not currently being used. If the channel set for the wireless router is currently being used by another device nearby, it will result in interference and communication failure.
- If you select the Pure High-throughput (Greenfield) 802.11n mode and set the Encryption type on your router or router to WEP, TKIP or TKIP-AES (WPS2Mixed), the product will not support a connection in compliance with new Wi-Fi certification specifications.
- If your router supports WPS (Wi-Fi Protected Setup), you can connect to the network via PBC (Push Button Configuration) or PIN (Personal Identification Number). WPS will automatically configure the SSID and WPA key in either mode.
- Wireless LAN, by its nature, may cause interference, depending on the operating conditions (router performance, distance, obstacles, interference by other radio devices, etc).

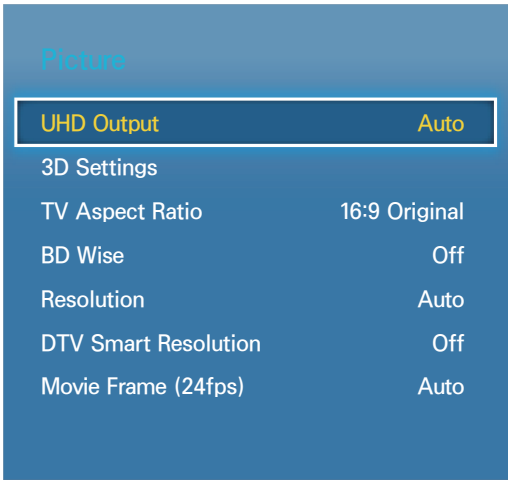
The Home Screen



1	PLAY DISC : Lets you play photos, videos, or music content from Disc.
2	FILMS AND TV SHOWS : Lets you view Films and TV Shows from the Internet. Depending on your country, this menu function may not be supported.
3	MULTIMEDIA : Lets you play photos, videos, or music content from USB or mobile devices, or PCs.
4	Sign In : Lets you log in with your Samsung account.
5	Search : Lets you search for contents in Films and TV Shows, Apps and YouTube by entering corresponding search words
6	SAMSUNG APPS : Gives you access to various for applications you can download.
7	My Apps : Apps downloaded from My Apps are displayed.
8	Recorded TV : Access Recorded TV directly.
9	Schedule Manager : Reserve the desired TV programmes.
10	Screen Mirroring : Lets you view the screen of your smart phone or android tablet on a TV you have connected to the product.
11	Settings : Opens the product's menu. In the menu can set various functions to suit your personal preferences.

In the Home menu screen, it will switch to DTV Channel mode after 3 minutes. When accessing the Settings menu, the screen saver will be activated after 5 minutes. Saves power by turning off product automatically when no user operation is received for 4 hours. If **Auto Power Off** menu is set to **Off**, the power will not turn off automatically.

Picture



UHD Output For BD-H89 series

This option outputs HDMI video at UHD (Ultra High definition) resolution. This is only available when **Movie Frame** is set to **Auto**.

- To use this feature, you must connect the product to a device that supports UHD resolution and you must have content that plays at 24fs (film speed).
- This device cannot play UHD contents However contents with resolution lower than Full HD can be up-scaled to UHD.
- For UHD resolution output, only 2160*3840 24 frame rate output is available.

3D Settings

Select whether to play a Blu-ray Disc with 3D contents in 3D Mode.

- If you move to the Home or Samsung Apps screen while in 3D mode, the product will switch to 2D mode automatically.

3D Blu-ray Playback Mode Try Now

Set whether to play 3D Blu-ray disc in 3D or 2D image.

- **Auto** : Automatically detect if a connected TV has 3D capability and play a Blu-ray 3D disc in 3D or 2D accordingly or a 3D only disc in 3D if the TV supports 3D. 3D only discs will not be played if your TV does not support 3D.
- **3D → 3D** : Play 3D only and Blu-ray 3D discs in 3D mode at all times.
- **3D → 2D** : Play Blu-ray 3D discs in 2D mode at all times. 3D only discs will not be played.

For some 3D discs, to stop a movie during 3D playback, press the ■ button once. The movie stops and the 3D mode option is de-activated. To change a 3D option selection when you are playing a 3D movie, press the ■ button once. The Home Screen menu appears. Press the ■ button again, then select **3D Settings** in the Blu-ray menu.

Depending on the content and the position of the picture on your TV screen, you may see vertical black bars on the left side, right side, or both sides.

Screen Size Try Now

Lets you enter the actual screen size of your TV so that the product can adjust the image according to the screen size and display an optimal 3D image. (For 3D displays bigger than 116 inches, simply setting it as 116 is a safe choice.)

As the video resolution in 3D play mode is fixed according to the resolution of the original 3D video, you can not change the resolution to your preference.

Some functions such as **BD Wise**, screen size adjustment, and resolution adjustment may not operate properly in 3D play mode.

You must use a high-speed HDMI cable for proper output of the 3D signal.

Stay at least three times the width of the screen from the TV when watching 3D images. For example, if you have a 46 inch screen, stay 138 inches (11.5 feet) from the screen. Place the 3D video screen at eye level for the best 3D picture.

When the product is connected to some 3D devices, the 3D effect may not function properly.

“Blu-ray 3D” and “Blu-ray 3D” logo are trademarks of the Blu-ray Disc Association.

TV Aspect Ratio Try Now

Lets you adjust the output of the product to the screen size of your TV.

- **16:9 Original** : Select when you connect the product to a 16:9 TV screen. The product will display all content in its original aspect ratio. Content formatted in 4:3 will be displayed with black bars on the left and right.
- **16:9 Full** : Select when you connect the product to a 16:9 TV screen. All content will fill the full screen. Content formatted in 4:3 will be stretched.
- **4:3 Letter Box** : Select when you connect the product to a 4:3 TV screen. The product will display all content in its original aspect ratio. Content formatted in 16:9 will be displayed with black bars on the top and bottom.
- **4:3 Pan-Scan** : Select when you connect the product to a 4:3 TV screen. 16:9 content will have the extreme left and right portions cut off.

Depending on the disc type, some aspect ratios may not be available.

If you select an aspect ratio and option which is different than the aspect ratio of your TV screen, then the picture might appear to be distorted.

If you select the **16:9 Original**, your TV may display 4:3 Pillarbox (black bars on sides of picture).

BD Wise (Samsung Products only) Try Now

When you connect a Samsung product and a Samsung TV with **BD Wise** to each other via HDMI, and **BD Wise** is on in both the product and TV, the product outputs video at the video resolution and frame rate of the play contents.

- **Off** : The output resolution stays fixed at the resolution you set previously in the Resolution menu, regardless of the resolution of the disc. See Resolution below.
- **On** : The product outputs video at the original resolution and frame rate of the play contents.

- When BD Wise is on, the Resolution setting automatically defaults to BD Wise and BD Wise appears in the Resolution menu.
- If the product is connected to a device that does not support BD Wise, you can not use the BD Wise function.
- For proper operation of BD Wise, set the BD Wise menu of both the product and the TV to On.

Resolution Try Now

Set the output resolution of the HDMI video signal.

The number indicates the number of lines of video per frame. The i and p indicate interlaced and progressive scan, respectively. The more lines, the higher quality.

- **BD Wise** : Automatically sets the resolution to the resolution of the play contents. if you have connected the product via HDMI to a TV with the BD Wise feature. (The BD Wise menu item appears only if BD Wise is set to **On**. See BD Wise above.)
- **Auto** : Automatically sets the output resolution to the connected TV's maximum resolution.
- **1080p** : Outputs 1080 lines of progressive video.
- **1080i** : Outputs 1080 lines of interlaced video.
- **720p** : Outputs 720 lines of progressive video.
- **576p/480p** : Outputs 576/480 lines of progressive video.

Resolution according to the output mode

- Blu-ray Disc/E-contents/Digital Contents/DTV/DVD playback

For BD-H85 series

Resolution	Blu-ray Disc	E-contents/Digital contents/DTV	DVD
BD Wise	Resolution of Blu-ray Disc	1080p	576i/480i
Auto	Max. Resolution of TV input	Max. Resolution of TV input	Max. Resolution of TV input
1080p	1080p	1080p	1080p
1080i	1080i	1080i	1080i
720p	720p	720p	720p
576p/480p	576p/480p	576p/480p	576p/480p

For BD-H89 series

<table>
<tr><th colspan="2">Resolution</th><th>Blu-ray Disc</th><th>E-contents/ Digital contents</th><th>DTV</th><th>DVD</th></tr>
<tr><td colspan="2">BD Wise</td><td>Resolution of Blu-ray Disc</td><td>1080p</td><td>1080p</td><td>576i/480i</td></tr>
<tr><td rowspan="2">Auto</td><td>Movie Frame : Auto
(UHD Output : Auto)</td><td>2160p@24F</td><td>2160p@24F</td><td rowspan="2">Max. Resolution of TV input</td><td rowspan="2">Max. Resolution of TV input</td></tr>
<tr><td>Movie Frame : Off</td><td>Max. Resolution of TV input</td><td>Max. Resolution of TV input</td></tr>
<tr><td colspan="2">1080p</td><td>1080p</td><td>1080p</td><td>1080p</td><td>1080p</td></tr>
<tr><td colspan="2">1080i</td><td>1080i</td><td>1080i</td><td>1080i</td><td>1080i</td></tr>
<tr><td colspan="2">720p</td><td>720p</td><td>720p</td><td>720p</td><td>720p</td></tr>
<tr><td colspan="2">576p/480p</td><td>576p/480p</td><td>576p/480p</td><td>576p/480p</td><td>576p/480p</td></tr>
</table>

- If the screen stays blank after you have changed the resolution, remove all discs, and then press the HOME button on the remote control. Press and hold the ■ button on the top of the product for more than 5 seconds. All settings are restored to the factory default.
- When the factory default settings are restored, all stored user BD data is deleted.
- The Blu-ray Disc must have the 24 frame feature for the product to use the Movie Frame (24fps) mode.

DTV Smart Resolution Try Now

Use this function to automatically optimise screen resolution for digital broadcasts.

- **Auto** : Screen resolution is automatically optimised for digital broadcast.
- **Off** : Turn off DTV Smart Resolution.

When you change your TV channel with this function set to **Auto**, according your TV, the display time of next channels may take longer than the function set to **Off**.

DTV smart resolution is activated only when resolution option is set to **Auto**.

Movie Frame (24fps) Try Now

Setting the Movie Frame (24fps) feature to Auto lets the play adjust its HDMI output to 24 frames per second for improved picture quality. You can enjoy the Movie Frame (24fps) feature only on a TV supporting this frame rate. Movie Frame is only available when the product is in the 1080p output resolution modes.

- **Auto** : Movie Frame (24fps) functions work.
- **Off** : Movie Frame (24fps) functions are off.

Fit Screen Size Try Now

Set the screen to the optimal size. (Apply Smart Hub, Screen Mirroring only)

If displayed e-Manual page on your TV screen is incomplete and partially hidden, set he **Fit Screen Size** to **Size 1**.

HDMI Colour Format Try Now

Set the colour space format for HDMI output, depending on the connected device.

- **Auto** : Automatically set the optimum format supported by the connected display device.
- **YCbCr (4:4:4)** : Recommended when connected to a display that supported YCbCr (4:4:4) because most films are in this format.
- **RGB (Standard)** : Recommended when connected to a display that does not support the YCbCr format. Select this for output of the normal range of RGB colours.
- **RGB (Enhanced)** : Select this for output of an enhanced range of RGB colours. Not recommended for general use because it will increase the contrast between black and white.

HDMI Deep Colour Try Now

Lets you output video from the HDMI OUT jack with Deep colour. Deep colour provides more accurate colour reproduction with greater colour depth.

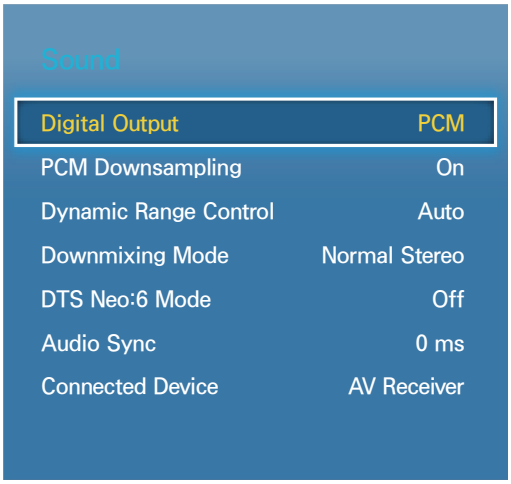
- **Auto** : The product outputs video with Deep Colour to a connected TV which supports HDMI Deep Colour.
- **Off** : The picture is output without Deep Colour.

Progressive Mode Try Now

Lets you improve picture quality when viewing DVDs.

- **Auto** : Select to have the product automatically select the best picture quality for the DVD you're watching.
- **Video** : Select for the best picture quality from concert or TV show DVDs.

Sound



Digital Output Try Now

You set the Digital Output to match the capabilities of the AV receiver you've connected to the product :

- **PCM** : Choose if you have connected an HDMI supported AV receiver.
- **Bitstream (Unprocessed)** : Select if you have connected an HDMI supported AV receiver with Dolby TrueHD and DTS-HD Master Audio decoding capabilities.
- **Bitstream (Re-encoded DTS)** : Choose if you have connected an AV receiver using a Digital Optical input that can decode DTS.
- **Bitstream (Re-encoded Dolby D)** : Select if you don't have an HDMI supported AV receiver, but have an AV receiver with Dolby Digital decoding capabilities.

Be sure to select the correct Digital Output or you will hear no sound or a loud noise.

If the HDMI device (AV receiver, TV) is not compatible with compressed formats (Dolby digital, DTS), the audio signal outputs as PCM.

Regular DVDs do not have BONUSVIEW audio and Navigation Sound Effects.

Digital Output Selection

Audio Stream on Blu-ray Disc

Setup	Connection	Audio source stream	Outputs
PCM	HDMI supported Avreceiver	PCM	Up to PCM 7.1ch
		Dolby Digital	Up to PCM 7.1ch
		Dolby Digital Plus	Up to PCM 7.1ch
		Dolby TrueHD	Up to PCM 7.1ch
		DTS	Up to PCM 6.1ch
		DTSHD High Resolution Audio	Up to PCM 7.1ch
		DTS-HD Master Audio	Up to PCM 7.1ch
	Optical	PCM	PCM 2ch
		Dolby Digital	PCM 2ch
		Dolby Digital Plus	PCM 2ch
		Dolby TrueHD	PCM 2ch
		DTS	PCM 2ch
		DTSHD High Resolution Audio	PCM 2ch
		DTS-HD Master Audio	PCM 2ch
Bitstream (Unprocessed)	HDMI supported AV receiver	PCM	PCM
		Dolby Digital	Dolby Digital
		Dolby Digital Plus	Dolby Digital Plus
		Dolby TrueHD	Dolby TrueHD
		DTS	DTS
		DTSHD High Resolution Audio	DTSHD High Resolution Audio
		DTS-HD Master Audio	DTS-HD Master Audio
	Optical	PCM	PCM 2ch
		Dolby Digital	Dolby Digital
		Dolby Digital Plus	Dolby Digital
		Dolby TrueHD	Dolby Digital
		DTS	DTS
		DTSHD High Resolution Audio	DTS
		DTS-HD Master Audio	DTS

Setup	Connection	Audio source stream	Outputs
Bitstream (Re-encoded DTS)	HDMI supported AV receiver or Optical	PCM	Re-encoded DTS
		Dolby Digital	Re-encoded DTS
		Dolby Digital Plus	Re-encoded DTS
		Dolby TrueHD	Re-encoded DTS
		DTS	Re-encoded DTS
		DTSHD High Resolution Audio	Re-encoded DTS
		DTS-HD Master Audio	Re-encoded DTS
Bitstream (Re-encoded Dolby D)	HDMI supported AV receiver or Optical	PCM	Re-encoded Dolby Digital *
		Dolby Digital	Re-encoded Dolby Digital *
		Dolby Digital Plus	Re-encoded Dolby Digital *
		Dolby TrueHD	Re-encoded Dolby Digital *
		DTS	Re-encoded Dolby Digital *
		DTSHD High Resolution Audio	Re-encoded Dolby Digital *
		DTS-HD Master Audio	Re-encoded Dolby Digital *

Audio Stream on DVD

Setup	Connection	Audio source stream	Outputs
PCM	HDMI supported AVreceiver	PCM	PCM 2ch
		Dolby Digital	Up to PCM 5.1ch
		DTS	Up to PCM 6.1ch
	Optical	PCM	PCM 2ch
		Dolby Digital	PCM 2ch
		DTS	PCM 2ch
Bitstream (Unprocessed)	HDMI supportedAV receiver	PCM	PCM 2ch
		Dolby Digital	Dolby Digital
		DTS	DTS
	Optical	PCM	PCM 2ch
		Dolby Digital	Dolby Digital
		DTS	DTS
Bitstream (Re-encoded DTS)	HDMI supported AV receiver or Optical	PCM	PCM 2ch
		Dolby Digital	Dolby Digital
		DTS	DTS

Setup	Connection	Audio source stream	Outputs
Bitstream (Re-encoded Dolby D)	HDMI supported AV receiver or Optical	PCM	PCM 2ch
		Dolby Digital	Dolby Digital
		DTS	DTS

Audio Stream of Broadcast

Setup	Connection	Audio source stream	Outputs
PCM	HDMI supported AVreceiver	Dolby Digital	Up to PCM 5.1ch
		Dolby Digital Plus	Up to PCM 5.1ch
		MPEG1 Layer 2	Up to PCM 5.1ch
		HE-AAC	Up to PCM 5.1ch
	Optical	Dolby Digital	PCM 2ch
		Dolby Digital Plus	PCM 2ch
		MPEG1 Layer 2	PCM 2ch
		HE-AAC	PCM 2ch
Bitstream (Unprocessed)	HDMI supported AV receiver	Dolby Digital	Dolby Digital
		Dolby Digital Plus	Dolby Digital Plus**
		MPEG1 Layer 2	PCM 2ch
		HE-AAC	Re-encoded Dolby Digital ***
	Optical	Dolby Digital	Dolby Digital
		Dolby Digital Plus	Dolby Digital
		MPEG1 Layer 2	PCM 2ch
		HE-AAC	Re-encoded Dolby Digital ***
Bitstream (Re-encoded DTS)	HDMI supported AV receiver or Optical	Dolby Digital	Re-encoded DTS
		Dolby Digital Plus	Re-encoded DTS
		MPEG1 Layer 2	PCM 2ch
		HE-AAC	Re-encoded DTS ***
Bitstream (Re-encoded Dolby D)	HDMI supported AV receiver or Optical	Dolby Digital	Re-encoded Dolby Digital
		Dolby Digital Plus	Re-encoded Dolby Digital
		MPEG1 Layer 2	PCM 2ch
		HE-AAC	Re-encoded Dolby Digital ***

Definition for Blu-ray Disc

Setup	Connection	Audio source stream	Outputs
PCM	HDMI supported AVreceiver	Any	Decodes the main feature audio and BONUSVIEW audio stream together into PCM audio and adds Navigation Sound Effects.
	Optical		
Bitstream (Unprocessed)	HDMI supported AV receiver	Any	Outputs only the main feature audio stream so that your AV receiver can decode the audio bitstream. You will not hear BONUSVIEW audio or Navigation Sound Effects.
	Optical		
Bitstream (Re-encoded DTS)	HDMI supported AV receiver or Optical	Any	Decodes the main feature audio and BONUSVIEW audio stream together into PCM audio and adds Navigation Sound Effects, then reencodes the PCM audio into DTS bitstream.
Bitstream (Re-encoded Dolby D)	HDMI supported AV receiver or Optical	Any	Decodes the main feature audio and BONUSVIEW audio stream together into PCM audio and adds Navigation Sound Effects, then reencodes the PCM audio into Dolby Digital bitstream.

* If the Source Stream is 2ch or mono, "Re-encoded Dolby D" setting is not applied. Output will be PCM 2ch.

** If the **Audio Description** is set to **On**, audio output will be changed Dolby Digital even if the original broadcast stream is Dolby Digital Plus.

*** If the **Audio Description** is set to **On** and sampling rate of less 48kHz, audio output will be changed PCM even if the Bitstream is selected.

PCM Downsampling Try Now

Set whether to use downsampling processing or not.

- Off : Select when the AV receiver connected to the product is 96kHz compatible.
- On : Select when the AV receiver connected to the product is not 96kHz compatible. 96kHz signals will be down converted to 48kHz.

Even when PCM Downsampling is set to Off, some discs will only output downsampled audio through the optical digital outputs.

If your TV is not compatible with compressed multi-channel formats (Dolby Digital, DTS), the product may output PCM 2ch downmixed audio even though you set the digital output as Bitstream (unprocessed/Re-encoded DTS/Re-encoded Dolby D) on your setup menu.

If your TV is not compatible with PCM sampling rates over 48kHz, the product may output 48kHz downsampled PCM audio even though you set PCM Downsampling to Off.

Dynamic Range Control Try Now

Set Dynamic Range control option for Dolby Digital, Dolby Digital Plus and Dolby TrueHD.

- Auto : The Dynamic Range will be controlled automatically based on the information provided by the Dolby TrueHD Soundtrack. This setting is same with "On" for Dolby Digital and Dolby Digital Plus.
- Off : You can enjoy original sound without compressing Dynamic Range of the sound.
- On : The Dynamic Range is compressed appropriately by boosting low level sound and reducing extremely loud sound.

Downmixing Mode Try Now

Select Downmix method for stereo output.

- **Normal Stereo** : Downmixes the multi-channel audio into two channel stereo. Choose when connected to equipment that does not support virtual surround functions such as Dolby Pro Logic.
- **Surround Compatible** : Downmixes multi-channel audio into surround compatible stereo. Choose when connected to equipment that supports virtual surround functions such as Dolby Pro Logic.

DTS Neo:6 Mode Try Now

You can enjoy multichannel sound via HDMI output even for 2 channels audio source.

- **Off** : Outputs a 2-channel audio signal through the front speakers only.
- **Cinema** : Select to play 2-channel movie sound over multi-channels.
- **Music** : Select to play 2-channel music over multi-channels.

If you are using an HDMI supported AV receiver, this option is available when you set **Digital Output** setup as **PCM**.

Audio Sync Try Now

In some cases when the product is connected to a digital TV, the audio signal may not synchronize with the video signal. If this occurs, adjust the audio delay time to match the video signal.

- You can set the audio delay time between 0 msec and 250 msec. Adjust it to the optimal setting.

The audio delay time you specify may not be exact depending on the played content.

Connected Device Try Now

Choose an equipment that you have connected to this product to hear the sound in addition to your TV. Loudness of DTV Programme will be adjusted according to your equipment.

- **AV Receiver** : Select this If you use a general AV Receiver / Home Theatre Equipment or a Television to hear sound.
- **AV Receiver (Offset Mode)** : Select this if your case is one of two shown below.
  - If you use THX Certified AV Receiver / Home Theatre Equipment.
  - In case **Digital Output** is set to **Bitstream**, and If you feel the Dolby Audio much louder than MPEG1 Layer2 Audio while watching DTV Programme, select this even if your AV Receiver is not THX Certified one.
- **Stereo Device** : Select this if you use a Stereo Amplifier or Recording Device that support Optical Digital Audio Input as PCM format.

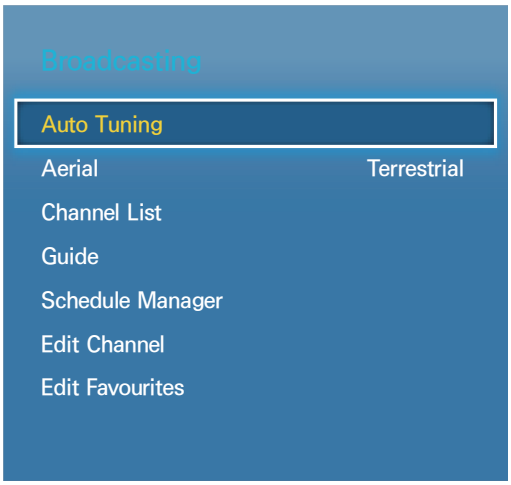
For users whose TV is the only sound-producing device: 1) If the TV does not support Dolby Digital bitstream input via HDMI, no specific setting is required. 2) If the TV supports Dolby Digital bitstream input via HDMI, set Connected Device to Stereo.

If the DTV Programme you are watching is produced according to EBU R128, The Average Loudness between MPEG1 Layer2 Audio, Dolby Digital Audio, Dolby Digital Plus Audio, HE-AAC Audio can be reduced. If the DTV Programme do not meet the EBU R128, there may be still some amount of difference of average Loudness between a TV Programmes.

Substantial number of AV Receiver / Home Theatre Device decode Dolby Digital / Dolby Digital Plus with +4dB OFFSET when compared to same encoding level of PCM input. This kind of product include both THX Certified one and also none THX Certified one. If user select "**AV Receiver (Offset Mode)**", the average loudness between Dolby Digtial / Dolby Digital Plus audio decoded by such a product and MPEG1 Layer2 Audio decoded by this product will be similar.

Broadcasting

You can configure your TV channels with features such as country and auto tune.



Auto Tuning Try Now

Scans all channels and stores them in the product's memory.

Auto Tuning

Configure auto-tuning settings to scan and store channels.

Standby Auto Tuning

Auto-tune channels while your device is in standby mode.

This menu can be available when country set to Hungary, Finland and Italy and TV mode is Astra HD + or Sky.

Cable Search Option Except for H8509S, H8909S, H8500A, H8900A model

Configure search settings, such as frequency and symbol rate, for cable network.

Wake-up Timer

Schedule timer to turn the TV on and scan channels automatically.

This menu can be available when country set to Hungary, Finland and Italy and TV mode is Astra HD + or Sky.

Aerial Except for H8500A, H8900A, H8509S, H8909S model

Selects an appropriate type of aerial for digital broadcasts.

Before your product can begin memorizing the available channels, you must specify the type of signal source that is connected to the this product.

Channel List Try Now

Select this to check the stored channels.

You can see TV channels in several ways.

Guide Try Now

Provide programme information for each channels.

Depending on your country, this menu function may not be supported.

Schedule Manager Try Now

It can manager lists for schedule viewing or recording.

Depending on your country, this menu function may not be supported.

Edit Channel Try Now

It is provided to edit functions for channel.

Edit Favourites Try Now

It is provided to make and edit favourite lists for channel.

Channel Settings

Country (Area) Try Now

Select your country so that the TV can correctly auto-tune the broadcasting channels.

Password : Enter the desired 4-digit password using the number buttons. 1) Belgium, France, Italy, Norway : You can not set the password to "0000". Please choose other numbers. 2) Others : Default password is set to 0000.

Channel Ordering menu can be displayed when the country set to Italy.

Manual Tuning Try Now

Scans for a channel manually and stores in the product.

When scanning has finished, channels are updated in the channel list.

Transfer Channel list Try Now

This function can import or export the channel map.

You should connect a USB storage to use this function.

- **Import from USB** : Import channel list from USB.
- **Export to USB** : Export channel list to USB.

If you set the country to Netherlands and Antenna source set to cable, this menu will not appear.

Delete CAM operator profile Except for H8500A, H8900A model

Select this menu to delete the CAM operator profile.

Satellite System For H8509S, H8909S model

Configure settings for your satellite equipment.

- **Satellite Selection** : Choose one or more satelites for your product.
- **LNB Power** : Enable or disable LNB Power supply from receiver.
- **LNB Settings** : Configure parameters for your satelite equipment.
- **SatCR/Unicable Settings** : Configure single cable installation.

  Depending on your country, this menu function may not be supported.
- **Positioner Settings** : Configure the settings for your aerial positioner.
- **Reset All Settings** : Restrore all settings to defaults.

Channel Lock Try Now

Prevent your children from accessing harmful content by locking channels.

When "Channel Lock" set to "on", navigate to the "Edit Channel" Screen, select the channels you wish to lock, select the "Lock", and then enter the PIN code. This locks the selected channels.

Subtitle Try Now

Configures the subtitle options.

Primary Subtitle Language Try Now

Select the Primary Subtitle language.

Secondary Subtitle Language Try Now

Select the Secondary Subtitle language.

Audio Language Try Now

Select the type of Audio Language.

Edit Channel Number

Use this to change channel number.

Depending on your country, this menu function may not be supported.

Primary Audio Language Try Now

Select the Primary Audio language.

Secondary Audio Language Try Now

Select the Secondary Audio language.

Programme Rating Lock Try Now

Block some programmes. (Depending on the country)

Password : Enter the desired 4-digit password using the number buttons. 1) Belgium, France, Italy, Norway : You can not set the password to "0000". Please choose other numbers. 2) Others : Default password is set to 0000.

Data Service

Activates or deactivates the data service.

Depending on your country or region, this menu function may not be supported.

Digital Text

If the programme broadcasts with digital text, this feature is enabled.

Depending on your country or region, this menu function may not be supported.

Teletext Language Try Now

Set teletext language.

Primary Teletext Language Try Now

Select the primary teletext language.

Secondary Teletext Language Try Now

Select the secondary teletext language.

RF Bypass Gain For BD-H8500N, H8900N model

When the TV and product are connected together with a RF cable, this function prevents the distortion of the broadcast signal when watching a TV channel while the product is powered off.

Power consumption will be increased when you use this function.

Aerial Connection Type For H8509S, H8909S model

Choose Single or Dual depending on the number of aerial cables connected.

Common Interface Except for BD-H8500A, H8900A model

Show common interface menu and application information.

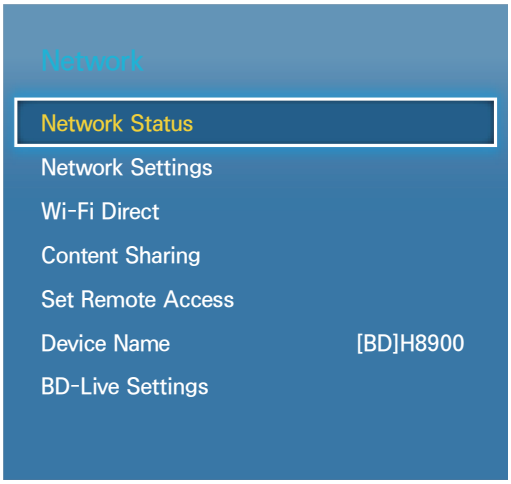
- **CI Menu** : This enables the user to select from the CAM provided menu. Select the CI Menu based on the menu PC Card.
- **CAM video transcoding** : You can configure the setting to transcode the video codec from the CAM automatically. Turn it Off if you do not want to use it.

  You must use a CAM that supports transcoding the video codec.
- **Application Info** : View information on the CAM(Conditional Access Module) inserted into the CI. Slot and on the "CI CAM with CI or CI+ CARD" which is inserted into the CAM. You can install the CAM anytime whether the product is on or off.
- **CICAM PIN Manager** : Save or clear CI CAM PIN numbers.

Insert the CI or CI+ card to view a paid channel. (Please refer to "Watching TV Channels".)

Network

When you connect this product to a network, you can use network based applications and functions, and upgrade the product's software through the network connection. To use network services, you must connect the product to the network.



Network Status Try Now

Lets you check the current network and Internet status.

Network Settings Try Now

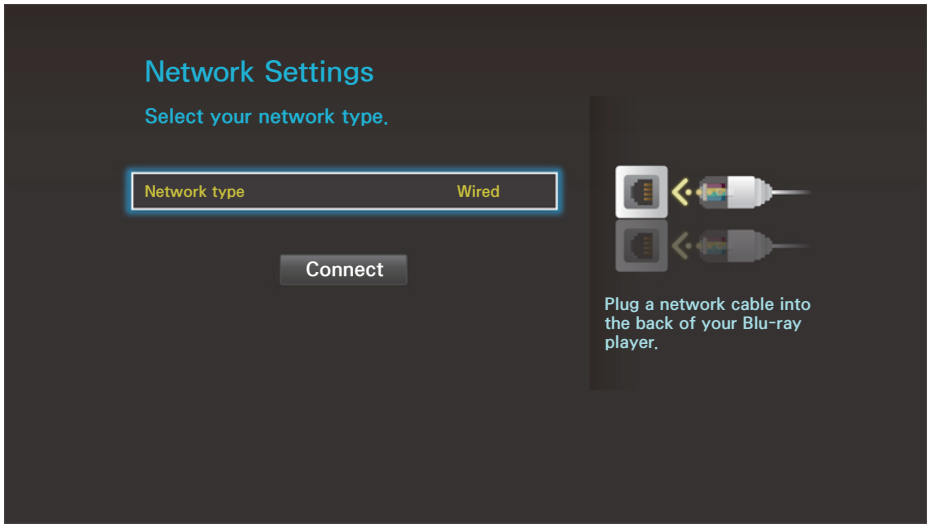
Before you begin, contact your ISP to find out if your IP address is static or dynamic. If it is dynamic, and you have a wired or wireless network, we recommend using the Automatic configuration procedures described below.

If you are connecting to a wired network, connect the product to your router using a LAN cable before you start the configuration procedure. If you are connecting to a wireless network, disconnect any wired network connection before you begin. (Please refer to "Connecting to a Network Router".)

Wired Network

Wired - Automatic

1. In the Home screen, select **Settings**, and then press the ↵ button.
2. Select **Network**, and then press the ↵ button.
3. Select **Network Settings**, and then press the ↵ button.
4. Select **Wired** in the **Network Settings** screen, and then press the ↵ button.



5. Select the **Connect**, and then press the ↵ button. The product detects the wired connection, verifies the network connection and then connects to the network.

Wired - Manual

If you have a static IP address or the Automatic procedure does not work, you'll need to set the **Network Settings** values manually.

Follow Steps 1 and 2 in Wired - Automatic and then follow these steps:

1. Select **Network Status**. The product searches for a network, and then displays the connection failed message.
2. On the bottom of the screen, select **IP Settings**, and then press the ↵ button. The **IP Settings** screen appears.
3. Select the IP Setting field, and then press the ↵ button.
4. Select **Enter manually** in the IP Setting field, and then press the ↵ button.
5. Select a value to enter (**IP Address**, for example), and then press the ↵ button. Use the number keypad on your remote control to enter the numbers for the value. You can also enter numbers using the ▲▼ buttons. Use the ◀▶ buttons on the remote control to move from entry field to entry field within a value. When done with one value, press the ↵ button.
6. Press the ▲ or ▼ button to move to another value, and then enter the numbers for that value following the instructions in Step 5.
7. Repeat Steps 5 and 6 until you have filled in all values.

   You can get the Network values from your Internet provider.
8. When finished entering all the values, select **OK**, and then press the ↵ button. The product verifies the network connection and then connects to the network.

Wireless Network

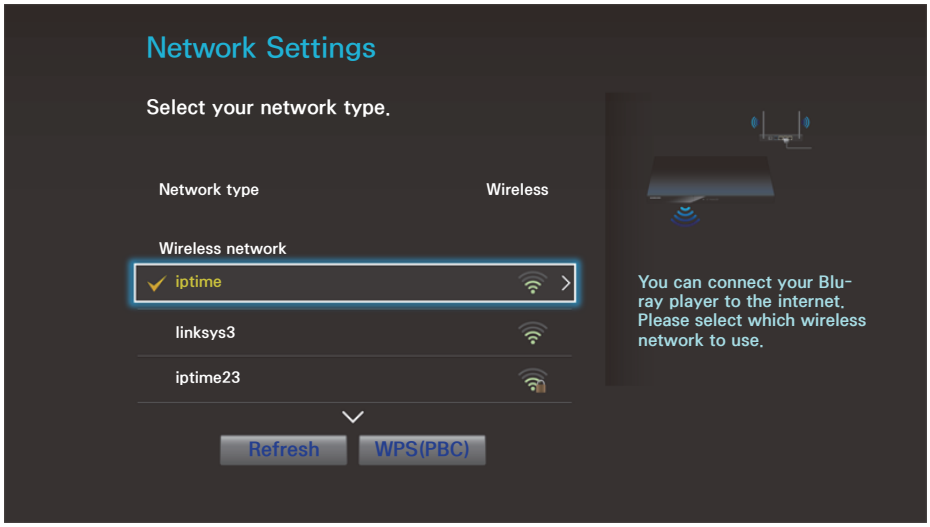
You can setup a wireless network connection in four ways:

- Wireless Automatic
- Wireless Manual
- WPS(PBC)
- WPS(PIN)

When you configure the wireless network connection, any wireless network devices currently connected through the product or, if applicable, the product's current wired connection, will be disconnected.

Wireless - Automatic

1. In the Home screen, select **Settings**, and then press the ↵ button.
2. Select **Network**, and then press the ↵ button.
3. Select **Network Settings**, and then press the ↵ button.
4. Select **Wireless** in the **Network Settings** screen, and then press the ↵ button. The product searches for and then displays a list of the available networks.



5. Select the desired network, and then press the ↵ button.
6. On the Security screen, enter your network's Security Code or Pass Phrase. Enter numbers directly using the number buttons on your remote control. Enter letters by selecting a letter with an arrow button, and then pressing ↵ button.

   To view the password as you enter it, use the arrow buttons to select **Show Password** on the right side, and then press ↵ button.
7. When finished, select **Done** and then press the ↵ button. The product verifies the network connection and then connects to the network.
8. When verification is complete, select **OK**, and then press the ↵ button.

You should be able to find the Security Code or Pass Phrase on one of the set up screens you used to set up your router or modem.

Wireless - Manual

If you have a static IP address or the Automatic procedure does not work, you'll need to set the **Network Settings** values manually.

1. Follow the directions in Wireless - Automatic through Step 5.
2. The product searches for a network, and then displays the connection failed message.
3. On the bottom of the screen, select **IP Settings**, and then press the ↵ button. The **IP Settings** screen appears.
4. Select the IP Setting field, and then press the ↵ button.
5. Select **Enter manually** in the IP Setting field, and then press the ↵ button.
6. Select a value to enter (**IP Address**, for example), and then press ↵ button. Use the number keypad on your remote control to enter the numbers for the value. You can also enter numbers using the ▲▼ buttons. Use the ◀▶ buttons on the remote control to move from entry field to entry field within a value. When done with one value, press the ↵ button.
7. Press the ▲ or ▼ button to move to another value, and then enter the numbers for that value following the instructions in Step 6.

8. Repeat Steps 6 and 7 until you have filled in all values.

   You can get the Network values from your Internet provider.

9. When finished, select **OK**, and then press the ↵ button. The Security Screen appears.
10. On the Security screen, enter your network's Security Code or Pass Phrase. Enter numbers directly using the number buttons on your remote control. Enter letters by selecting a letter with the ▲▼◀▶ buttons, and then pressing the ↵ button.
11. When finished, select **Done** at the right of the screen, and then press the ↵ button. The product verifies the network connection and then connects to the network.
12. After the product verifies the network, select **OK**, and then press the ↵ button.

WPS(PBC)

1. In the Home screen, select **Settings**, and then press the ↵ button.
2. Select **Network**, and then press the ↵ button.
3. Select **Network Settings**, and then press the ↵ button.
4. Select **Wireless** in the **Network Settings** screen, and then press the ↵ button.
5. Press the ▲ button on your remote, and then press the ▶ button to select the **WPS(PBC)**.
6. Press the ↵ button on your remote. The "Press the PBC button on your wirless router within the next two minutes." message appears.
7. Press the WPS(PBC) button on your router within two minutes. Your product automatically acquires all the network settings values it needs and connects to your network. The **Network Status** screen appears. The product connects to the network after the network connection is verified.

WPS(PIN)

Before you begin, open the router's setup menu on your PC and access the screen with the WPS PIN entry field.

1. In the Home screen, select **Settings**, and then press the ↵ button.
2. Select **Network**, and then press the ↵ button.
3. Select **Network Settings**, and then press the ↵ button.
4. Select **Wireless** in the **Network Settings** screen, and then press the ↵ button. The product searches for and then displays a list of the available networks.
5. Select the desired network, and then press the ↵ button.
6. Select the **WPS(PIN)**, and then press the ↵ button. The PIN pop-up appears.
7. Enter the PIN into the WPS PIN entry field in the router's Set Up screen and then save the screen.

Contact the manufacturer of the router for instructions explaining how to access the route's Set Up screens or refer to the router's user's manual.

For a WPS connection, set your wireless router's security encryption method to AES. WPS connections do not support WEP security encryption.

Wi-Fi Direct

The Wi-Fi Direct function allows you to connect Wi-Fi Direct devices to the product and each other using a peer-to-peer network, without a wireless router.

Bluetooth transmissions can interfere with the Wi-Fi Direct signal. Before you use the **Wi-Fi Direct** function, we strongly recommend that you turn off the Bluetooth function of any active mobile device.

1. Turn on the Wi-Fi Direct device and activate its **Wi-Fi Direct** function.
2. In the Home screen, select **Settings**, and then press the ↵ button.
3. Select **Network**, and then press the ↵ button.
4. Select **Wi-Fi Direct**, and then press the ↵ button. The Wi-Fi Direct devices that you can connect appear.

The wired or wireless network connection will be disconnected when you use the **Wi-Fi Direct** function.

Some Wi-Fi Direct devices may not support the Content Sharing function if connected via Wi-Fi Direct. If this is the case, it is advisable to change the network connection method between devices.

Content Sharing

Multimedia Device Settings

Allow other devices on your network, like smart phones and tablets, to share content with your product.

Share Hard Drive

Set whether to share content from this product with other network connected devices, such as smart phone.

If this menu is set to **On**, **Auto Power Off** function is not available.

Set Remote Access

Remote access allows you to access and control your product from other devices.

You have to log in Samsung account ID to use Remote Access functions with Samsung product.

Register to Samsung Link

Register this device to Samsung Link to share content. Only available with Samsung product supporting Samsung Link functionality.

Device Name

Lets you input a name for the product that will identify it on your networks.

BD-Live Settings Try Now

Set various BD-Live function. BD-Live allows you to access extra features available on some Blu-ray discs if you are connected to the Internet.

BD-Live Internet Connection Try Now

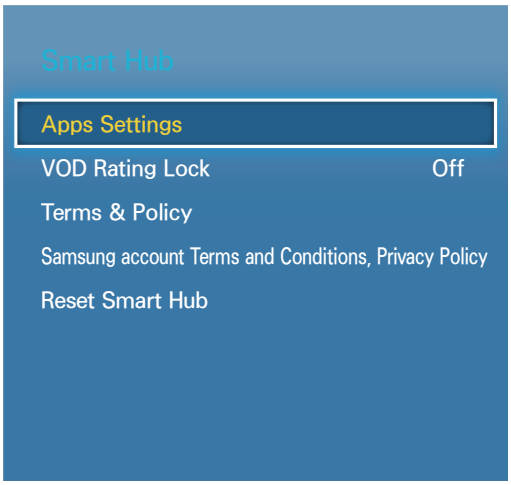
Lets you fully allow, partly allow, or prohibit a BD-Live Internet connection.

Delete BD Data Try Now

Once the product is connected to your network, you can enjoy various movie related service contents available on BD-LIVE compliant discs. By default, the memory is configured and requires no separate settings. If there is not enough free space and disturbs BD-Live operation, delete BD Data to free memory space.

Smart Hub

Set your preferences for using Apps.



Apps Settings

Lets you configure App notification settings and view basic info about your Apps.

Auto Ticker

This automatically turns on the selected ticker service.

Channel-Bound Apps

Enable or disable Channel-Bound Apps.

Channel-Bound Apps are found on certain channels and provide additional information or services.

VOD Rating Lock

You can lock access to Video on Demand (VOD) content based on its rating.

- Depending on your country, this menu function may not be supported.
- If you haven't logged into your Samsung account, this function is not available.

Terms & Policy

You must review and agree to both the App Terms & Conditions and the privacy policy to use App services.

Samsung account Terms and Conditions, Privacy Policy

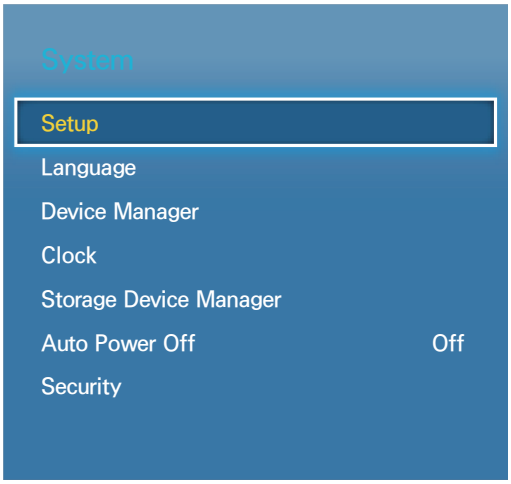
You can view and agree to the terms or privacy policy for your Samsung account and a variety of other services.

- Samsung account terms & conditions
- Samsung account Privacy Policy
- Terms and Conditions for Recommendations
- Recommendations Privacy Notice

Reset Smart Hub Try Now

Reset your App services and Samsung account settings stored on your device.

System



Setup Try Now

Sets the channels and the time when setting up this product for the first time or when resetting it.

Language Try Now

You can select the language you prefer for the On-screen menu, disc menu, etc.

The selected language will only appear if it is supported.

Device Manager Try Now

Setup input devices to use with this product. You can check your device list and adjust the settings in this menu.

Keyboard Settings Try Now

Lets you configure a wireless USB keyboard connected to the product.

Mouse Settings Try Now

Lets you configure a wireless USB mouse connected to the product. You can use the mouse in the product's menu in the same way you use a mouse on your PC.

To use a mouse with the product's menu:

1. Connect the USB mouse to the product.
2. Click the primary button you selected in Mouse Settings. The Simple Menu appears.
3. Click the menu options you want.

- Depending on the model of the USB HID keyboard and mouse may not be compatible with your product.
- Some HID keyboard keys may not work.
- Wired USB keyboards are not supported.
- Some applications may not be supported.
- If a wireless HID Keyboard does not operate because of interference, move the keyboard closer to the product.

Clock Try Now

Sets the current date and time.

If Schedule Viewing and Schedule Recording is set using GUIDE, Channel List, or Info menu, It will work based on the time information of the TV programme. If you set the Clock Mode to Manual and change time manually, Schedule Viewing and Schedule Recording function can be limited or work abnormally.

Storage Device Manager Try Now

Format Device Try Now

Format selected device. All contents will be deleted from that device.

Check Device Try Now

Check to see if there is an error with the selected device.

Device Performance Test Try Now

Test the recording performance of the device.

Since the product's Timeshift and other implemented functions require a certain amount of HDD space allocated internally, the total size shown in the **Storage Device Manager** of Settings menu may differ from the HDD's capacity shown in the manual.

Select Device for Recording

Change the location of where you store recorded files.

Auto Power Off Try Now

Saves power by turning off your product automatically when no user operation is received for setting time(4hours, 6hours, 8hours).

This function isn't available when **Share Hard Drive** is set to **On**.

Security Try Now

This function works in conjunction with Blu-ray Disc/DVDs that have been assigned an age rating or numeric rating that indicates the maturity level of the content.

These numbers help you control the types of Blu-ray Disc/DVDs that your family can watch. When you access this function, the security screen appears.

Enter the your Security PIN.

Password : Enter the desired 4-digit password using the number buttons. 1) Belgium, France, Italy, Norway : You can not set the password to "0000". Please choose other numbers. 2) Others : Default password is set to 0000.

BD Parental Rating

Prevent playback of Blu-ray Discs with specific age ratings unless a PIN is entered.

DVD Parental Rating

Prevent playback of DVDs with specific numerical ratings unless a PIN is entered.

A larger number indicates that the programme is intended for adult use only.

Change PIN

Change the 4-digit PIN used to access security functions.

General Try Now

You can change the options listed below to match your preferences.

Advanced Music Copy Try Now

When you copy music files, information can be updated automatically.

The copying time may be increased.

This feature is available only when the product is connected to the network.

Menu Transparency Try Now

Adjust the transparency of the menu box.

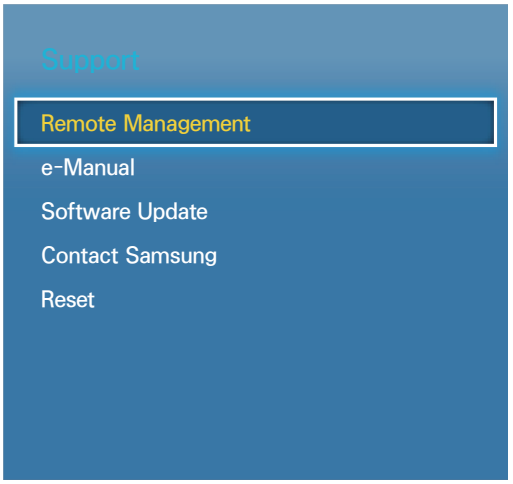
Anynet+ (HDMI-CEC) Try Now

Anynet+ is a convenient function that offers linked operations with other Samsung products that have the Anynet+ feature. To operate this function, connect this product to an Anynet+ Samsung TV using an HDMI cable.

DivX® Video On Demand Try Now

View DivX® VOD Registration Codes to purchase and play DivX® VOD contents.

Support



Remote Management Try Now

Remote management lets our Call Centre access your Samsung product remotely to troubleshoot a problem.

e-Manual

Check the E-manual stored in the device to get troubleshooting tips.

Software Update Try Now

The Software Update menu allows you to upgrade the product's software for performance improvements or additional services.

1. In the Home screen, select the **Settings**, and then press the ↵ button.
2. Select **Support**, and then press the ↵ button.
3. Select **Software Update**, and then press the ↵ button.

4. To download update software and update now, select **Update Now**, and then press the ↵ button.
5. To let the product download update software automatically when available, select **Auto Update**, and then press the ↵ button.

- The upgrade is complete when the product turns off, and then turns on again by itself.
- Samsung Electronics shall takes no legal responsibility for product malfunction caused by an unstable Internet connection or consumer negligence during a software Update.
- When a system upgrade is in progress, "UPDATE" is displayed on the front panel.

Update Now

You can use Update Now to update the software through your network connection or by using a USB flash drive. The network instructions are below. The USB flash drive instructions are on the next page.

1. Select **Update Now**, and then press the ↵ button. The Update now pop-up appears.
2. The product searches on line for the latest software version.
3. If it does not find an update, the "There are no new updates for you at the moment." pop-up appears. Press the ↵ button to exit.
4. If it finds a new version, the Update Request pop-up appears.
5. Select **OK**. The product upgrades the software, turns off, and then turns on automatically.
6. If you select **Cancel**, the product cancels the upgrade.

- When the system upgrade is done, check the software details in the Product Information section of the Contact Samsung screen.
- Do not turn off the product during the Software Update. It may cause the product to malfunction.

Auto Update

You can set the Auto Update function so that the product downloads new upgrade software when it is in Auto Update mode. In Auto Update mode, the product is off, but its Internet connection is active. This allows the product to download upgrade software automatically, when you are not using it.

1. Press the ▲▼ buttons to select Auto Update, and then press the ↵ button.
2. Select "Off" or "On".

- On : The product will proceed with updating its software automatically if a new release of the software becomes available without notifying the user.
- Off : The product will prompt user to confirm updating when a new release of the software becomes available, which allows user to proceed or cancel updating.

To use the Auto Update Mode Upgrade function, your product must be connected to the Internet.

Manage Satellite Channels For BD-H8509S, H8909S model

Manage software downloads via a satellite channel.

Update by USB

To upgrade by USB, follow these steps:

1. Visit www.samsung.com.
2. Click SUPPORT on the top right of the page.
3. Enter the product's model number into the search field. As you enter the model number, a drop down will display products that match the model number.
4. Left click your product's model number in the drop down list.
5. On the page that appears, scroll down to and then click Firmware Manuals & Downloads.
6. Click Firmware in the centre of the page.
7. Click the ZIP button in the File column on the right side of the page.
8. Click Send in the first pop-up that appears. Click OK in the second pop-up to download and save the firmware file to your PC.

9. Unzip the zip archive to your computer. You should have a single folder with the same name as the zip file.
10. Copy the folder to a USB flash drive.
11. Make sure no disc is inserted in the product, and then insert the USB flash drive into the USB port of the product.
12. In the product's menu, go to Settings > Support > Software Update.
13. Select Update Now.
14. The product searches for the software on the USB drive. When it finds the software,the Update Request pop-up appears.
15. Select OK. The product upgrades the software, turns off, and then turns on automatically.

- There should be no disc in the product when you upgrade the software using the USB jack.
- When the system upgrade is done, check the software details in the Product Information section of the Contact Samsung screen.
- Do not turn off the product during the Software Update. It may cause the product to malfunction.
- Software Updates using the USB jack must be performed with a USB flash memory stick only.

Contact Samsung Try Now

Provides contact information for assistance with your product.

Reset Try Now

Resets all settings to their default settings except for the network and App service settings. The default PIN is 0000.

- Password : Enter the desired 4-digit password using the number buttons. 1) Belgium, France, Italy, Norway : You can not set the password to "0000". Please choose other numbers. 2) Others : Default password is set to 0000.

Your product can play content located on Blu-ray/DVD/CD discs, USB devices, and PCs. To play content located on your PC, you must connect your PC and the product to your network and Visit the http://link.samsung.com site to download and install the Samsung-link program.

Playing Commercial Discs

1. Press the ▲ button to open the disc tray.
2. Place a disc gently into the disc tray with the disc's label facing up.
3. Press the ▲ button to close the disc tray. Playback starts automatically.

- In TV view mode, the ► button will function as Timeshift rather than its original function, playback even if there is a disc inserted.
- In Home screen, the ► button will function as playback of multimedia content in the disc.

Playing Photos, Videos, and Music (Multimedia)

You can play media content saved on a USB device, built-in HDD, smartphone, camera, computer, or cloud service on the product.

- However, you cannot play media content if the content or the storage device are not supported by the product.
- Backup important files before connecting a USB device. Samsung shall not be held responsible for damaged or lost files.

Playing Media Content Saved on a USB Device

1. Connect your USB device to the product.
2. Press the HOME button and select Storage in the Multimedia panel. The USB devices connected to the product are listed.
3. Select the device you wish to connect to. The folders and files in the selected USB are listed.
4. Select the media content you wish to play from the list. The media content plays.
   - Alternatively, move to the media content to play and press the ► button to play the content.
5. To exit, press the ■ button or RETURN button.

- If you connect a USB device to the product while watching the product, a popup window appears on the screen so that you can easily navigate the folders and files of the USB device.

Playing Media Content Saved in a Computer/Mobile Device

You can play media content on the product with a computer or mobile device connected to the same network as the product.

- Only available with Samsung phones supporting DLNA functionality.
- Samsung Link software should have been installed on the computer. The mobile device should support Samsung Link. For more information, visit Samsung's content and service portal at http://link.samsung.com.
- You may experience compatibility issues when attempting to play media files via a third-party DLNA server.
- However, the content shared by a computer or a mobile device may not play depending on the encoding type and file format of the content. In addition, some functions may not be available.
- The media content may not smoothly play depending on the network status. If this is the case, use a USB storage device.

1. Connect the smart device and product.
2. Press the HOME button. (Settings → Network → Content Sharing → Multimedia Device Settings) Storages devices connected to the same network of the product are listed.
3. Select a desired storage device. The folders and files shared by the selected storage device are listed.
4. Select the media content you wish to play from the list. The media content plays.

   - Alternatively, move to the media content to play and press the ► button to play the content.
5. To exit, press the ■ button or RETURN button.

Allowing Connection with a Mobile Device

(HOME → Settings → Network → Content Sharing)

To play the media content stored on a mobile device, you must allow the connection between the mobile device and the product.

You can connect to a mobile device on any DLNA DMC device. DLNA DMC function enables users to connect a mobile device to the product, search for media content, and control play operations on the product.

1. Navigate to Settings > Network and select Content Sharing. The mobile devices connected to the same network as the product are listed.
2. Allow connection with the device you wish to connect to the product. You can only play media files from devices that have been allowed to connect to the product.

   If a mobile device requests the media content to play, the connection confirmation window appears on the product so that you can easily connect a mobile device.

Playing Media Content Saved in a Cloud Service

Cloud service saves user content such as photos, videos, and music files on a server so that it can be played on the product connected to the network. You can view the media content saved in a cloud service such as Dropbox and OneDrive on the product.

- To play the content in a cloud service, you must log into your Samsung account and link the Samsung account to the cloud service account. For the information about linking your Samsung account to a cloud service account, refer to "Linking Your Internet Service Accounts to the product" section.

1. Press the HOME button and select Cloud Service in the Multimedia panel. The cloud services linked with your Samsung account appears.
2. Select a desired cloud service. The folders and files in the selected cloud service are listed.
3. Select media content you wish to play from the list. The media content plays.
   - Alternatively, move to the media content to play and press the ∂ button to play the content.
4. To exit, press the ■ button or RETURN button.

- A Samsung smart device or a PC installed with the Samsung Link app can be connected to the Blu-ray product through a remote network.
- To connect devices through a remote network, the same Samsung Account should be used to log in for both this Blu-ray product and the device running the Samsung Link app.
- For further details on sharing contents with Samsung Link in remote access network, refer to the "Register to Samsung Link" guide to enable the function.
- For more information, visit the Samsung Content & Service portal (http://link.samsung.com).

Samsung Link

For more information, visit the Samsung Content & Service portal (http://link.samsung.com).

You may experience compatibility issues when attempting to play media files via a third-party DLNA server.

Controlling Video Playback

You can control the playback of video content located on a Disc, USB, mobile device or PC. Depending on the disc or contents, some of the functions described in this manual may not be available.

Buttons on the Remote Control used for Video Playback

Playback related buttons

The product does not play sound in Search, Slow or Step mode.

- To return to normal speed playback, press the ► button.
- ► button : Starts playback.
- ■ button : Stops playback.
- II button : Pauses playback.

- **Fast Motion Play** : During playback, press the ◀◀ or ▶▶ button. Each time you press the ◀◀ or ▶▶ button, the playback speed will change.
- **Slow Motion Play** : In pause mode, press the ▶▶ button. Each time you press the ▶▶ button, the playback speed will change.
- **Step Motion Play** : In pause mode, press the ❚❚ button. Each time you press the ❚❚ button, a new frame appears.
- **Skip Motion Play** : During playback, press the ⏮ or ⏭ button. Each time you press ⏮ or ⏭ button, the disc moves to the previous or next chapter or file.

Using the disc menu, title menu, popup menu, and title list

- **DISC MENU** button : During playback, press this button to display the Disc menu.
- **TITLE MENU** button : During playback, press this button to display the Title menu.

  If your disc has a playlist, press the **View** button to go to the playlist.
- **POPUP MENU** button : During playback, press this button to display the Popup menu.

Using the Settings Menu (During the Playback)

During playback or in pause mode, press the TOOLS button.

Use the ▲▼◀▶ buttons to select the button, and then press the button.

- Play from the beginning : Select to return to the beginning of the movie, and then press the button
- Select Scene
  - Search Titles : If there is more than one movie on the disc or device, select to start a different title.

1. Select Search Titles, and then press the button.
2. Use the ▲▼ buttons to select a title, and then press the button.

  - Chapter Search : Select to play the chapter of your choice.

1. Select Chapter Search, and then press the button.
2. Use the ▲▼ buttons to select a chapter, and then press the button.

  - Search Time Bar : Select to play the movie from a selected time point.

1. Select Search Time Bar, and then press the button.
2. Using the number buttons, enter the time point you want to go to, and then press the button.

  You can also use the ◀▶ buttons to advance or rewind the movie. The movie advances or rewinds one minute each time you press the ◀▶ buttons.

If the index information in the file is damaged or the file does not support indexing, you will not be able to use the Select Scene function.

If you run files on network device after you have connected the player to a computer on your network, Select Scene may not work.

- 3D : Use the 3D menu when playing a 3D file.

  The 3D menu becomes available only when you are playing a 3D video file.

  When playing a 3D video, set the player to Side by Side or Top and Bottom in 3D Settings so that the player's settings match the 3D content format.

  If you move to the Home or Smart Hub Home screen while in 3D mode, the product will switch to 2D automatically.

- **Search**
  - **Search Scene** : You can use the Search Scene function during playback to view or start a movie from the scene of your choice.
  - **Search Titles** : If there is more than one movie on the disc or device, select to start a different title.
  - **Search Time Bar** : Select to play the movie from a selected time point.
- **Subtitle Settings** : Lets you set the desired subtitle options.
- **Repeat Mode** : Lets you repeat a title, chapter, or specific section.
- **Rotate** : Lets you rotate the picture.
- **Full Screen** : Lets you set the size of the video image.
- **Picture Mode** : Lets you set the picture mode.
  - **Dynamic** : Increases sharpness and brightness.
  - **Standard** : Choose this setting for most viewing applications.
  - **Movie** : The best setting for watching movies.
  - **User** : Lets you adjust the sharpness and noise reduction function respectively.

  When you use the BD wise function, this menu will not appear.
- **Audio** : Use to set the desired audio language.
- **Audio Sync** : Select to set the audio sync.
- **Subtitle** : Use to set the desired subtitle language.

- Angle : Lets you view a scene from another angle. The Angle option displays the number of angles available to view. When a Blu-ray Disc/DVD contains multiple angles of a particular scene, you can change angle.
- Information : Lets you to view video file information.
- BONUSVIEW Video, BONUSVIEW Audio : Use to set the desired bonusview option.

Depending on the disc or storage device, the Settings menu may differ.

Video files with high bitrates of 20Mbps or more strain the product's capabilities and may stop playing during playback.

Using the View & Options Menus

Using the View Menu

On a file screen containing video files, select and then press the button.

- Date : Groups all the the photo files on the media or storage device by date. Click a group to see the videos in that group.
- Title : Displays all the video files on the media or storage device by title.
- Folder : Displays all the folders on the media or storage device in alphabetical order.

Depending on the disc or storage device, the View menu may differ or not appear.

Using the Options Menu

On a file screen containing video files, select and then press the button.

- **Play Selected** : Play Selected lets you select specific file to play. It works essentially the same for all media.
- **Send** : Select Send to upload selected files to a web site (Picasa, Facebook etc) or device. To use Send, you need to establish an account with the on-line site, and then log in using the Log In function.

Controlling Music Playback

You can control the playback of music content located on a Disc, USB, mobile device or PC.

Depending on the disc or contents, some of the functions described in this manual may not be available.

Buttons on the Remote Control used for Music Playback

- NUMBER buttons : Press the number of a track. The selected track is played.
- ⏮ ⏭ button : Move to the previous/next track.
- ■ button : Stops a track.
- Fast Play (Audio CD (CD-DA) only) : During playback, press the ◀◀ or ▶▶ button. Each time you press the ◀◀ ▶▶ button, the playback speed will change.
- ❚❚ button : Pauses a track.
- ▶ button : Plays the currently selected track.

If you don't press a button within five seconds of inserting an Audio CD, the screen is displayed in Full Screen mode. To go back to the Play List screen, press the RETURN button on the remote control.

Using the Options Menu (During the Playback)

On the music file playback screen, use the ▲▼◀▶ buttons to select the ⚙ button, and then press the ↵ button.

- Save as playlist : Select to save as playlist.
- Play Selected : Play Selected lets you select specific tracks to play. It works essentially the same for all media. See the "Repeating tracks on an Audio CD".
- Ripping : The Ripping function converts CD audio to the mp3 format and saves the converted files on a USB device or a mobile device connected to the product.
- Information : Select to see the (Contents) information.

Depending on the disc or storage device, the Settings menu may differ or not appear.

Using the View & Options Menus (On a file screen)

Using the View Menu

On the playback screen, button and then press the button.

- Track : Displays all the music tracks on the media or storage device in alphabetical order.
- Album : Displays all music on the media or storage device by album.
- Artist : Displays all the the music files on the media or storage device by artis.
- Genre : Displays all the music on the media or storage device by genre.
- Folder : Displays all the folders on the media or storage device.

Depending on the disc or storage device, the View menu may differ or not appear.

Using the Options Menu

On playback screen or a file screen containing music files, select and then press the button.

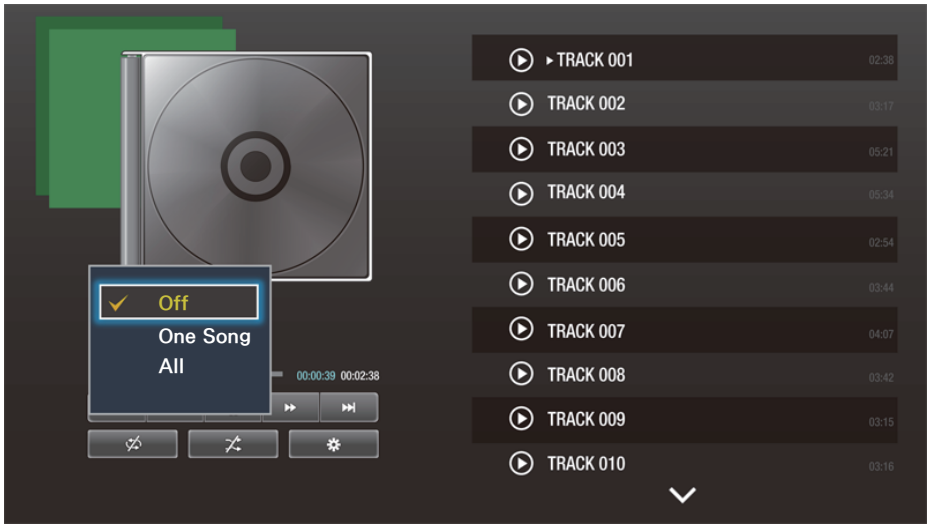
- Play Selected : Play Selected lets you select specific tract to play. It works essentially the same for all media. See the "Repeating tracks on an Audio CD".
- Send : Select to send selected files to other devices.
- Encoding : Select to manage the text encoding options.

Depending on the disc or storage device, the Options menu may differ or not appear.

Repeating Tracks on an Audio CD

You can set the product to repeat tracks on an audio CD (CD-DA/MP3).

1. On the Playback screen, use the ▲▼◀▶ buttons to select in the lower left corner of the screen, and then press the button.
2. Use the ▲▼ to select the repeat mode you want - Off, One Song, or All - and then press the button.



Shuffling Tracks on an Audio CD

You can set the product to play tracks on an audio CD (CD-DA/MP3) at random.

1. On the Playback screen, use the ▲▼◀▶ buttons to select in the lower left corner of the screen, and then press the button.
2. Use the ▲▼ to set the Shuffle mode On or Off, and then press the button.

Creating a Playlist from an Audio CD

1. With the Playback screen displayed, select the ⚙ button and then press the ↵ button. The Settings menu appears.
2. Use the ▲▼ buttons to select **Play Selected**, and then press the ↵ button. The Selection Play screen appears.
3. Use the ▲▼ buttons to select a track, and then press the ↵ button. A check appears to the left of the track.
4. Repeat Step 3 to select and check additional tracks.
5. To remove a track from the list, move to the track, and then press the ↵ button again. The check on the track is removed.
6. When done, press the ▲▼ button to select **Play**, and then press the ↵ button. The Music Playback screen reappears listing only the tracks you checked. The selected tracks play automatically.

- You can create a playlist with up to 99 tracks on Audio CDs (CD-DA).
- If you have created a playlist, **Play Selected** is replaced by **Edit Playlist** on the Settings menu.
- On the Selection Play screen, you can also choose **Select All**, **Clear All**, and **Cancel**. 1) Use **Select All** to select all tracks. This cancels your individual track selections. When you press the **RETURN** button on your remote control or select **Play** button, and then press the ↵ button, all tracks will appear on the Music Playback screen, and the product will begin to play all tracks from Track 001. 2) Use **Clear All** to deselect all selected tracks at once. Then, select individual tracks or use **Select All** to select all the tracks, and then press the **RETURN** button on your remote control. If you do not use **Select All** or select individual tracks, the Playlist will not change. 3) **Cancel** cancels any changes you made on the Play Select screen. When you return to the Playback screen, the Playlist will be unchanged.

Ripping

1. Insert a USB device into the USB jack on the front of the product.
2. With the Playback screen displayed, select the ⚙ button and then press the ↵ button. The **Settings** menu appears.
3. Use the ▲▼ buttons to select **Ripping**, and then press the ↵ button. The **Ripping** screen appears.
4. Use the ▲▼ buttons to select a track, and then press the ↵ button. A check appears to the left of the track.
5. Repeat Step 3 to select and check additional tracks.
6. To remove a track from the list, move to the track, and then press the ↵ button again. The check on the track is removed.
7. When done, select the **Rip** button using the ▲▼ button, and then press the ↵ button. The **Rip** pop-up appears.
8. Use the ▲▼ buttons to select the device to store the ripping file and then press the ↵ button.

   Do not disconnect the device while rip is in progress.
9. If you want to cancel ripping the track, press the ↵ button and then select **Yes**. Select **No** to continue ripping.
10. When ripping is complete, the "Successfully ripped." message appears. Press the ↵ button.
11. Press the **RETURN** or select the **Cancel** button and then press the ↵ button to go back to the Playback screen.

- This function does not work with DTS Audio CD.
- This function may not be supported by some discs.
- This function will be encoded into the .mp3 format at 192kbps.
- On the Ripping screen, you can also choose **Select All** and **Clear All**.
- Use **Select All** to select all tracks and press the ↵ button. This cancels your individual track selections.
- Use **Clear All** to deselect all selected tracks at once.

Playing Photo Contents

You can play photo contents located on a DVD, USB, mobile device or PC.

Using the Tools Menu (During Playback)

During playback or in pause mode, press the TOOLS button.

Use the ▲▼◀▶ buttons to select the button, and then press the button.

- Slideshow Settings : Select to change the Slide Show settings.
  - Speed : Select to set the slide show speed.
  - Effect : Select to set the slide show effect.
- Rotate : Select to rotate the picture. (This can rotate the picture either clockwise or counter clockwise.)
- Zoom : Select to enlarge the current picture. (Enlarge up to 4 times)
- Picture Mode : Select to set the picture mode.
  - Dynamic : Choose this setting to increase Sharpness.
  - Standard : Choose this setting for most viewing applications.
  - Movie : This is the best setting for watching movies.
  - User : Lets you adjust the sharpness and noise reduction function respectively.

  This menu can not be displayed when you use the BD Wise function.
- Background Music : Select to listen to music while viewing a slide show.

  The number of music files searched from the external device may differ from devices.
- Send : Select to send the selected file to other devices.
- Information : Select to see the (Contents) information.

Depending on the disc or storage device, the Tools menu may differ. All options may not be displayed.

To enable the background music function, the photo file must be in the same storage media as the music file. Note that the sound quality can be affected by the bitrate of the MP3 file, the size of the photo, and the encoding method.

You can't enlarge the subtitle and PG graphic in the full screen mode.

Using the View & Options Menus

Using the View Menu

On a file screen containing photo files, button and then press the button.

- Date : Groups all the the photo files on the media or storage device by date. Click a group to see the photos in that group.
- Title : Displays all the photo files on the media or storage device by title.
- Folder : Displays all the folders on the media or storage device.

Depending on the disc or storage device, the View menu may differ or not appear.

Using the Options Menu

On a file screen containing photo files, select the and press the button.

- Slide show : Starts the slide show. Shows all the files in the current folder, one after another. If you want to create a slide show with a selected group of photos, see Play Selected below.
- Play Selected : Play Selected lets you select specific photo to see. It works essentially the same for all media.
- Send : Select Send to upload selected files to a web site (Picasa, Facebook etc) or device. To use Send, you need to establish an account with the on-line site, and then log in using the Log In function.

Watching TV Channels

After Tuning is completed, you can watch TV channel.

(Please refer to "Broadcasting" to search channel.)

Using the channel option

Using the remote control buttons

Press the below buttons while you are viewing a channel.

- NUMBER buttons : To move TV channel directly, press the channel numbers of desired TV channel.
- PROG button : Press this button to change TV channels.
- INFO button : Press this button to display detailed information of selected channel.
- CH LIST button : Press this button to display the Channel List.

Using the Tools Button

Press the TOOLS button while you are viewing a channel.

- Picture Mode : Select this to set the picture mode.
  - Dynamic : Choose this setting to increase Sharpness.
  - Standard : Choose this setting for most viewing applications.
  - Movie : This is the best setting for watching movies.
  - User : Lets you adjust the sharpness and noise reduction function respectively.

  This menu can not be displayed when you use the BD Wise function.
- Audio Sync : Adjust the audio delay time to match the video.
- Audio Language : Select to set the desired audio language.
- Dual I II : Select to set the desired audio.
- Lock Current Channel : You can lock a TV channel by setting PIN.

  This menu can be displayed when the country set to Netherlands and brodcast signal is cable.
- Aerial : Select to change a signal.
- Edit Favourites : Select to edit Favourites.
- Signal Information : Select to check the signal information.
- Audio Description : Select to add a verbal description to the main audio to help the visually impaired.
- Subtitle : Select to set the desired subtitle.

Watching Pay channels

Except for BD-H8500A, H8900A model

To watch a paid channel, the CI or CI+ card must be inserted.

After channel tuning is completed, follow the instructions.

1. Purchase a CI CAM at your nearest dealer or by phone.
2. Firmly insert the "CI CAM with CI or CI+ CARD".
3. Insert the CAM with the "CI CAM with CI or CI+ CARD" into the common interface slot, in the direction of the arrow so that it aligns parallel with the slot.
4. Check if you can see a picture on a scrambled signal channel.

- This product works with CI and CI+ CAM. But in case of some local broadcasting operators, this product may not have perfect compatibility with all kinds of CAM.
- If the inserted CAM does not operate properly, pull the CAM CARD out of the product and insert it into the slot again.
- If a popup message appears, please take a step referring the follows.(This is not a product malfunction. Please contact your service provider for more information.)

1. "Wrong smart card inserted." : Smart card is inserted incorrectly.
2. " Inserted smart card not supported." : Wrong smart card is inserted.
3. "The credit of your smart card has expired. Your smart card is not authorised for this service." : The credit of your smart card has expired.
4. "No smart card is inserted." : Smart card is not inserted correctly.

- Some CAM in the market with older firmware versions are not fully interoperable with this device that is compliant to v1.3 specification.
- It is a problem of legacy CAM, not this CI Plus compliant device. In this case, this problem can be resolved by applying a firmware upgrade to the CAM.
- Please contact your network operator or CAM operator for it.
- Check whether the firmware of CAM is upgraded for compatibility with CI+ 1.3 Version.
- For more information on "CI CAM with CI or CI+ CARD", refer to the "Common Interface".

Channel List

1. Press the CH LIST button on the remote control to see all channels searched. The Channel List will be displayed.
2. Press the ◀ button to sort channels. You can change the list ordered. (Aerial, Category, Sorting, Genre, Edit Favourites)

Edit Channel

You can manage the stored channels.

(HOME → Settings → Broadcasting → Edit Channel)

1. In the Home screen, select Settings, and then press the ↵ button.
2. Select Broadcasting, and then press the ↵ button.
3. Select Edit Channel, and then press the ↵ button. The Edit Channel Screen will be displayed.

Using the remote control buttons

When the Edit Channel Screen is displayed, you can manage the stored channels.

- **Change Number** : Select this to change the channel number.
- **Lock / Unlock** : Select this to lock or unlock channels.
- **Delete** : Select this to deletes selected channel.
- **Options**
  - **Select All** : Select this to check all channels.
  - **Deselect All** : Select this to deselect all channels.
  - **Sorting** : Select this to sorting channels.
  - **Category** : Select this to display category.
  - **Edit Favourites** : Select this to edit favourites
  - **Channel Info** : Select this to display channel Info.
  - **Information** : Select this to displayl nformation.

EPG & Schedule Manager

The EPG (Electronic Programme Guide) information is provided by broadcasters. Using channel schedules provided by broadcasters, you can specify channels you want to watch in advance so that the channel automatically changes to the selected channel at the specified time. Channel entries may appear blank or out of date depending on a channel status.

Using the Guide Screen option

1. Press the GUIDE button on the remote control.
2. To display the popup for channel number input, press a number button while a channel is selected.
3. Input the desired channel, and then press the ↵ button to go to channel guide.
4. Select a program.
5. Select Schedule Recording or Schedule Viewing, and then press the ↵ button.

If you set the country to New zealand, the guide screen is provided by digital broadcasts. So, Guide screen is different from above.

Setting the Schedule Manger manually

You can reserve the desired TV programmes using this menu. Make sure that clock must be set before operating this function.

(Home → Schedule Manager → Schedule Viewing / Schedule Recording)

1. Select Schedule Manager on the Home screen, and then press the ↵ button.
2. Press the ↵ button.
3. Select Schedule Recording or Schedule Viewing, and then press the ↵ button.
4. Fill the input items, and then press the ↵ button.

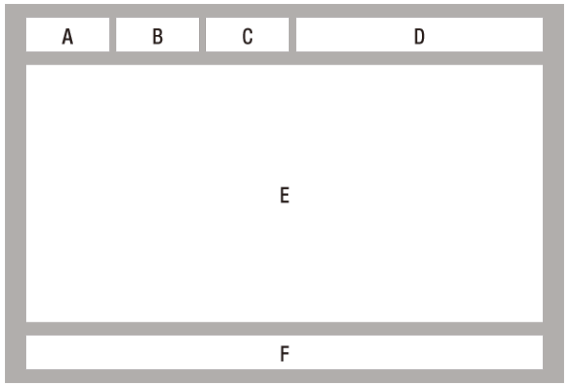
Using the Teletext Service

If DTV programme supports teletext signal, you can use teletext service. For Teletext information is displayed correctly, channel reception must be stable. Otherwise, information may be missing or some pages may not be displayed.

1. Press **TTX/MIX** button while you are viewing a TV channel.
2. By pressing the **TTX/MIX** button repeatedly, you can change or exit the teletext mode.

- : Stores the Teletext pages.
- : Displays the teletext on the upper half of the screen in double-size. To move the text to the lower half of the screen, press it again. For normal display, press it once again.
- : Holds the display at the current page, in the case that there are several secondary pages that follow automaticially. To undo, press it again.
- Colour buttons (red, green, yellow, blue) : If the FASTEXT system is used by the broadcasting company, the different topics on a Teletext page are colour-coded and can be selected by pressing the coloured buttons. Press the colour corresponding to the topic of your choice. A new colour-coded page is displayed. Items can be selected in the same way. To display the previous or next page, press the corresponding coloured button.
- : Displays the available sub-page.
- : Displays the next Teletext page.
- : Displays the previous Teletext page.
- : Displays the index (contents) page at any time while you are viewing Teletext.
- : Selects the Teletext mode (LIST/ FLOF). If pressed during LIST mode, switches the mode to List savemode. In List save mode, you can save a Teletext page into a list using the 8(store) button.
- : Displays the hidden text (answers to quiz games, for example). To display the normal screen, press it again.
- : Shrinks the Teletext display to overlap with the current broadcast.

Typical Teletext page



Part	Contents
A	Selected page number.
B	Broadcasting channel identity.
C	Current page number or search indications.
D	Date and time.
E	Text.
F	Status information. FASTEXT information.

Teletext TTX/MIX control is available only when the DTV programme support teletext signal.

Recording

Checking Available Storage Size

Please check the default recording device and available storage size in storage device for recording. (please refer to "Storage Device Manager".)

- At least 100 MB of free space is required for recording.
- Recording will stop if the storage's free space becomes less than 50 MB.

Notes on HDD capacity

This product reserves HDD capacity internally as described below, for function implementations and this reserved portion is not used for recording. (Timeshift : 22 GB, Functional Purpose : 5 GB)

The displayed capacity on OSD which shows approximated available capacity for recording is shown below, calculated based on shipped status.

Model Name	HDD Vendor Specification
BD-H89 series	1 TB
BD-H85 series	500 GB

- Display of HDD Capacity : The Capacity of the HDD manufacturer is calculated assuming that 1 KB = 1,000 Bytes. However, the operating system of the product calculates the capacity of HDD capacity assuming that 1 KB=1,024 Bytes, and therefore detected capacity by this product is about 93% of HDD Manufacturer representation. E.g. for a 1 TB(1000 GB) HDD, this product detect as 931.3 GB.
- It is recommended to use recorded or edited files with the product for private purposes only.

Recording the current TV channel you are watching

1. Press the PROG or number buttons to select a TV Channel you want to record.
2. Press the REC button.
3. Select the desired length of the recording, then press the ↵ button.

Maximum length of one recording is limited to 360 minutes. If recording reached the limit of 360 minutes, it will stop automatically.

To pause recording

1. Press the REC PAUSE button to pause a recording in progress.
2. Press the REC button to resume recording.

To stop recording

Press the ■ button to stop a recording in progress.

Playback control during recording

During recording a TV channel, you can search scene or move to the beginning point of recording without influence on the recording through Timeshift function.

1. ◀◀ ▶▶ buttons : Search the desired scene. Each time this button is pressed, playback speed will change.
   ▶▶ 1 → ▶▶ 2 → ▶▶ 3 → ▶▶ 4 → ▶▶ 5
   ◀◀ 1 → ◀◀ 2 → ◀◀ 3 → ◀◀ 4 → ◀◀ 5
2. ⏮ button : Return to the beginning point of recording.
3. ⏭ button : Jump to the same scene with Live TV.
4. ◀ button : Jump to - 10 sec from current position.
5. ▶ button : Jump to + 10 sec from current position.

6. ⏸ button : Pause the scene while keeping recording progress.
7. ■ button : If you are watching the past scene, the playback point will jump to the same scene with Live TV. If you are watching same scene with Live TV, recording will be stopped.

Watching other channels during Recording a TV channel

While a TV programme is being recorded, you can also watch TV channels. During the recording, press the PROG or number buttons to change the channel you want to watch.

- You can watch a free or scrambled channel while recording a free TV channel. If you are recording a scrambled channel, only a free channel can be watched.
- Recorded files of less than 10 seconds are not saved.

Simultaneous Recording

Simultaneous Recording of Two TV Channels

1. While a TV channel is being recorded, move to other TV channel that you want to record.
2. Press the REC Button. The recording will be started.

- Recording two different paid channels at the same time is not supported.
- If you want to enjoy simultaneous Recording of two TV channels, you need to connect satellite RF cables to ANT1 IN and ANT2 IN. For H8509S, H8909S model
- Even if you connect two CI(+) CAM to CAM slot, you can not view or recording two paid channels Simultaneously. For H8509S, H8909S model

Watching different TV channels that is not under recording

You can watch yet another channel while recording two TV channels at the same time.

1. Press the CH LIST button to check which TV channel is possible to watch. Blue coloured TV Channel in Channel List is what you can move without stopping the recordings already started.
2. Press the ↵ button to watch the possible TV Channel. To watch a channel that is not displayed in Blue, you need to stop at least one of currently recording.

To stop recording

If you are watching a TV channel which is under recording

Press the ■ button.

If you are watching a TV channel which is not under recording

Press the ■ button.

Simultaneous Operation

You can play a disc or enjoy other function during recording. Press the HOME button, and then select the SAMSUNG APPS or MULTIMEDIA. But, you can not select the settings menu unless stop the recording.

Timeshift function

You can pause a live TV or start watching the TV programme from the beginning point you started Timeshift function.

Start Timeshift with PLAY button

1. When you are watching a TV channel, press the ► button.
2. The Timeshift function starts and the Timeshift bar will appear. Live TV is displayed on the left side of Timeshift bar.

Start Timeshift with PAUSE button

1. When you are watching a TV channel, press the II button.
2. The image of TV programme will be paused, and then Timeshift bar will appear. II (Pause) is displayed on the left side of Timeshift bar.

Timeshift information

You can see current information about Timeshift function.

1. Press the ⏎ button on your remote control while Timeshift function is enabled.
2. Timeshift bar appears as below.

- The Timeshift settings are sustained even when you switch to another channel in Timeshift operation. In this case, Timeshift of former channel is supported as history function. (The Timeshift of former channel is still available)
- If Timeshift is started with Play or Pause key, the Timeshift is sustained until the Stop button is pressed. In case when the Timeshift operation becomes not available (such as switching to another application, an analogue channel or changing the input source), Timeshift stops without a notification and will resume automatically as soon as the source is switched to Digital TV. 1) The history function supports only for records of switching within channels of Digital TV source. 2) If switched to an analogue channel, history and Timeshift will stop functioning automatically. 3) Timeshift automatically stops when selected another menu in the Home menu. (Stops Timeshift and history functions that were operating.) 4) Returning to a Digital TV channel will automatically resumes Timeshift, if not accessed any other menu item of the Home menu.
- For Timeshift function, 22 GB of the internal HDD is reserved.

Playback control button during Timeshift function is enabled

1. ◀◀ ▶▶ buttons : Search the desired scene. Each time this button is pressed, playback speed will change.
   ▶▶ 1 → ▶▶ 2 → ▶▶ 3 → ▶▶ 4 → ▶▶ 5
   ◀◀ 1 → ◀◀ 2 → ◀◀ 3 → ◀◀ 4 → ◀◀ 5
2. ⏮ button : Return to the beginning of Timeshift.
3. ⏭ button : Shows same scene with Live TV.
4. ◀ button : Jump to - 10 sec from current position.
5. ▶ button : Jump to + 10 sec from current position.
6. ❚❚ button : Pause the scene while keeping Timeshift operation.
7. ■ button : If you are watching the past scene, playback point will jump to the same scene with Live TV. If you are watching the same scene with Live TV, the Timeshift function will be stopped.

To stop Timeshift

1. If Timeshift bar is not in pause or past mode, press ■ button. The message "Do you want to stop Timeshift?" will appear.
2. Select OK button and press ↵ button to stop Timeshift.
3. If the Timeshift bar is in pause or past mode, Timeshift mode will be changed into Live TV when you press ■ button first time.
4. Press ■ button again, then same message with above image appears.
5. Select Yes, and then press the ↵ button.

Playing the Recorded Title

1. Select the **Recorded TV** on the Home screen, then press the ↵ button. The Recorded TV List will be displayed.
2. Select the desired device, then press the ↵ button.
3. Select the title you want to play, then press the ↵ button. The selected title will be played back.

Press the **REC TV LIST** button on the remote to display the Recorded TV List.

Using the View, Filter and Options Menus

Using the View Menu

On a file screen contaning video files, select ⚙ and then press the ↵ button.

- **Title** : Appears on the View function screen. Sort to Title.
- **Date** : Appears on the View function screen. Sort to Date.
- **Channel** : Appears on the View function screen. Sort to Channel.

Depending on the disc or storage device, the View menu may differ or not be shown.

Using the Filter Menu

On playback screen, select the **Filter** and press the ↵ button.

- **All Contents** : Appears all the recorded TV list.
- **Unwatched** : Appears unwatched TV list.

Using the Options Menu

On playback screen or a file screen containing Recorded TV files, select the and press the button.

- **Play Selected** : Play Selected lets you select specific tract to play. It works essentially the same for all media. See the "Repeating tracks on an Audio CD".
- **Lock** : Select this menu to lock the file editing.
- **Unlock** : Select this menu to unlock the file editing.
- **Delete** : You can delete the file from the list.
- **Partial Delete** : You can delete a title partially.
- **Split** : You can split a title.
- **Rename** : You can rename a title.
- **Manage Devices** : Select this menu to manage device.

Depending on the disc or storage device, the Options menu may differ or not be shown.

Editing the Recorded Title

Splitting a Section of a Title (Divide into two)

(Recorded TV → Options → Split)

1. In the Recorded TV screen, select the Options, then press the ↵ button.
2. Select the Split, then press the ↵ button.
3. Select the title you want to edit.
4. Using the playback-related buttons, move to a point for splitting and then press the ↵ button.
5. Press the ↵ button to select ⋊.
6. Press the ↵ button to select Save. The split title is divided into two, and the following titles will be shifted down by one.

Splitting a Section of a Title (Partial Delete)

(Recorded TV → Options → Partial Delete)

1. In the Recorded TV screen, select the Options, then press the ↵ button.
2. Select the Partial Delete, then press the ↵ button.
3. Select the title you want to edit.
4. Press the ↵ button at the starting point. The image and starting point time is displayed in the section deletion starting point window.
   - Select the start and end points of the section you want to delete using the playback related buttons.
5. Press the ↵ button at the end point. The image and end point time is displayed in the Section deletion ending point window.
6. Press the ↵ button to select Save.
7. Press the ↵ button.

The minimum length of delete section should be longer than 5 seconds.

Send files

Copying Videos, Music or Photos

Contents	DISC/HDD/ Network Device/ Cloud Service → USB	DISC/USB/ Network Device/ Cloud Service → HDD	DISC/HDD/ Network Device → Cloud Service	DISC/HDD/ Cloud Service → Cloud Network Device
Music	Supported	Supported	Supported	Supported
Photos	Supported	Supported	Supported	Supported
Videos	Supported	Supported	Supported	Supported

- Disc (CD-DA/CD-R/CD-RW, DVD±R(Finalise)/ DVD+RW/DVD-RW(Finalise)) → HDD or USB
- PTP USB is not available when you copy to USB.
- The broadcast signal can be recorded on external or internal HDD but copy feature is not supported.

1. Press the **HOME** button. The home screen will be displayed.
2. In Stop mode, connect the USB storage device to the USB port on the front panel of the product.
3. Select the desired contents type, then press the ↵ button.
4. Select the **Options**, then press the ↵ button.
5. Select the **Send**, then press the ↵ button.
6. Select the desired contents.
7. Select the **Send**, then press the ↵ button.
8. Select the desired destination device.

3D Functions

Viewing DTV with the 3D effect

You can experience 3D effect with live TV and recorded TV programme with 3D contents.

1. During watching the TV programme or playing recorded TV programme, press the 3D button on your remote control. The 3D menu will appear.

- Side by Side : Displays two images next to each other.
- Top and Bottom : Displays one image above another.

2. Press the ◀ ▶ buttons to select the desired 3D mode, then press the ↵ button.
3. If you press the 3D button once more during 3D viewing, displayed image will be changed into 2D mode.

If you change TV channel during watching DTV in 3D mode of Side by Side mode, displayed image will be changed into 2D mode automatically.

When 3D effect of Side by Side mode is enabled, you can not adjust 3D mode.

If TV programme is not support Side by Side, Top and Bottom mode or Auto Detection function, 3D menu selection OSD is not appear.

Creating a Samsung Account

Create a Samsung account so you can take advantage of all Samsung has to offer on line. Set up accounts for each household member so each member can access their own accounts on Facebook, Twitter, etc. You also need a Samsung account if you want to download for-pay apps and rent Films.

1. On the Home screen, press the button. The **Sign In** screen appears.
2. Select **Create Account** on the bottom right, and then press the button. The Samsung account terms & conditions, privacy policy screen appears.
3. Press the button to agree, press the ▶ button, and then press the button. The Create a Account screen appears.
4. Select the ID field, and then press the button. The keyboard pop-up appears.
5. Enter your e-mail address using the keyboard. Use the arrow buttons to move from character to character. Press to select a character. Select the **Caps** button on the left to enter capitals. Select the **123#&** button to select additional symbols.
6. When finished, select the **Done** button on the keyboard, and then press the button. The Create screen reappears.
7. Enter a password, your first name, and last name in the same fashion.
8. Select the Date of Birth field, and then select numbers using the up and down arrow buttons or pressing numbers on your remote. Press the button when done.
9. After you have finished with all the ields, press the ▶ button, and then press the button. Connecting appears, and then the account confirmation message.
10. Press the button. The Set Profile Picture screen appears.

    Samsung sends a confirming e-mail to the address you entered. You must open the e-mail and respond as requested to finalize your account.

11. Select a picture to identify your account, and then press the button. The Account Created screen appears.
12. Press the button. The Home screen appears.

Before Using Samsung Apps

If you haven't set up Smart Hub, when you use Samsung Apps for the first time, the product will ask you to perform the Smart Hub set up procedure.

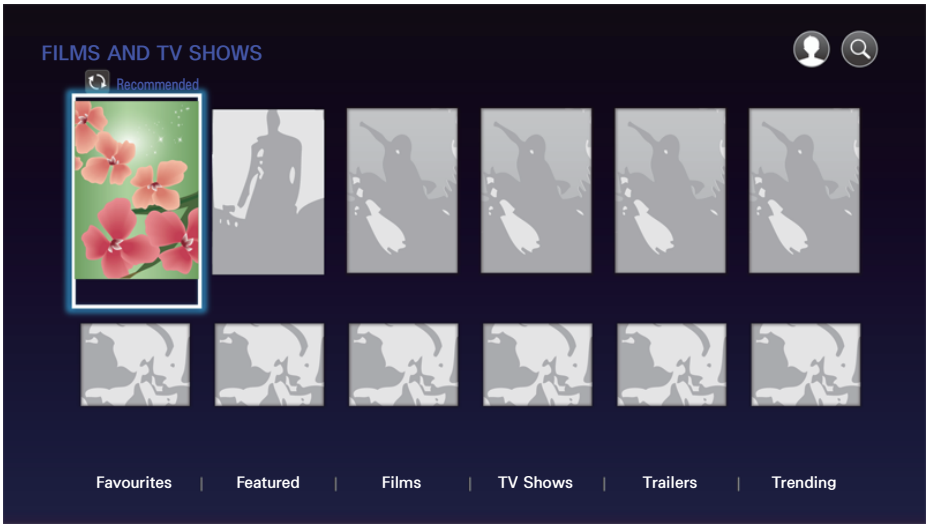
1. On the Home screen, select either **SAMSUNG APPS**, and then press the ↵ button. If you have selected **SAMSUNG APPS**, go to Step 4.
2. If you selected **SAMSUNG APPS**, the Smart Hub pop-up appears asking if you want to set up Smart Hub. Select **Yes**, and then press the ↵ button. The Welcome screen appears.
3. Select **Start**, and then press the ↵ button. The **Terms and Policy** screen appears.
4. On the Additional Services, Terms and Conditions and Choices screen, you must review and agree to both the Smart Hub Terms and Conditions and the Privacy Policy to use Smart Hub.
5. Scroll down, and then click the **View Details** buttons to review the full documents.

   ✎ You do not need to consent to the Supplemental Privacy Notice, but one or more Smart TV features or functionalities may not be available if you do not.

6. Select **I agree to all**, and then press the ↵ button. The Setup Complete screen appears. Press the ↵ button.

Using Films and TV Shows

If you haven't set up Smart Hub, when you use Films and TV Shows for the first time, the product will ask you to perform the Smart Hub set up procedure. You can stream Films and TV Shows and view them on your TV.



1. On the Home screen, select **FILMS AND TV SHOWS**, and then press the ↵ button.
2. 1) Select one of the Recommended Films, and then press the ↵ button. The page for that movie appears. Use the ▼ button to go to the bottom of the screen. 2) Alternately, select **Films** or **TV Shows** and then press the ↵ button. On the page that appears, use the ▲▼◀▶ buttons to select a show or movie, and then press the ↵ button. On the Films or TV Shows screen, you can also select **What's New** or **Genres** to see more available shows or Films. On the Genres screen, use the ▲▼◀▶ buttons to select a desired Genres, and then press the ↵ button. To make a selection on a page displaying Films and TV Shows, use the ▲▼◀▶ buttons to make a selection, and then press the ↵ button.
3. To watch a selection, select listed apps, and then press the ↵ button.

   The listed apps appears if you have not installed any of the movie apps you could use to watch the movie or TV show you selected. If none of these apps are installed on your product, select one of the apps, and then press the ↵ button. You will be asked if you want to install the app. Select Install, press the ↵ button, and then follow the directions that appear on the screen to install the app.

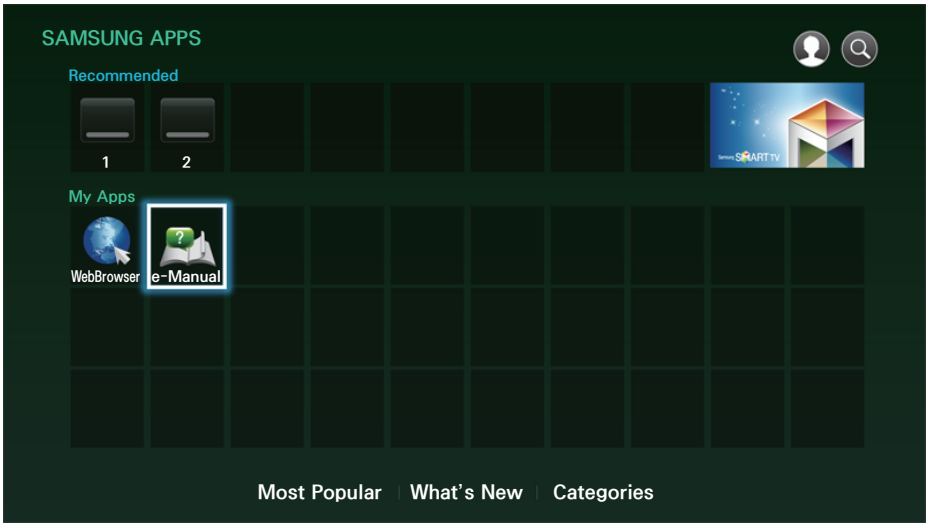
4. Follow the directions on the screen to start the movie.

- Contents items and the corresponding bottom menu in Films and TV Shows differ between countries.
- When you activate Films and TV Shows for the first time, the listed apps may not be displayed. The listed apps is displayed after you download a video contents App for use. If the listed apps button is not displayed, you cannot watch contents.
- Favorites will not appear unless you have tagged one or more films or TV shows as a favorite. To tag a movie or show as a favorite, select the show. The Detail screen appears. Select the heart symbol, and then press the ↵ button.

Using Samsung Apps

You can download applications from the Internet, and access various application and view them on your TV. To access some applications, you need to have a Samsung account.

The Samsung Apps Screen at a Glance



- **Recommended** : Displays recommended contents managed by Samsung. You cannot delete Recommended Apps.
- **My Apps** : Displays your personal gallery of applications modifiable on the **My Apps** screen.
- **Most Popular**, **What's New** and **Categories** : Select to view and download additional apps.

The first time you open the Samsung Apps screen, the product automatically downloads a group of free apps. Once these apps have been downloaded, they appear on the Samsung Apps screen.

To see additional apps, select **Most Popular**, **What's New**, or **Categories** on the bottom of the screen, and then press the ↵ button.

Most Popular displays the most popular apps, What's new the newest. Categories displays a series of icons representing categories such as Videos, Games, and Sports. Select a category icon, and then press the ↵ button. The product displays the apps in that category.

Downloading an App

1. Select **Most Popular**, **What's New**, or **Categories**, and then press the ↵ button.
2. If you selected **Categories**, select a category icon, and then press the ↵ button. Otherwise, go to Step 3.

- On the **Most Popular**, **What's New**, and **Categories** screens, a green arrow is displayed on apps you have already downloaded.

3. Select an app you want to download, and then press the ↵ button. The Detail Information screen for the app appears.
4. Select the **Download** button on the screen, and then press the ↵ button. Download changes to Cancel and the app begins to download.
5. If you want to cancel the download, select **Cancel**, and then press the ↵ button.
6. When the download is complete, Cancel changes to Play. Select Play, and then press the ↵ button to start the application. Alternately, press the **RETURN** button until the Samsung Apps screen reappears. The app you downloaded will be displayed on the Samsung Apps screen under My Apps.

If the App cannot be downloaded due to insufficient remaining internal memory, connect a USB storage device and try again.

Starting an Application

1. Select SAMSUNG APPS on the Home screen, and then press the ↵ button.
2. On the SAMSUNG APPS screen, use the ▲▼◀▶ buttons to select an app, and then press the ↵ button. The app starts.

The Option Menu

Move

1. On the My Apps screen, select the app you want to move on the My Apps screen, and then press the ↵ button for 3 seconds. The Option menu appears.
2. Select Move, and then press the ↵ button.
3. Use the ▲▼◀▶ buttons to move the app.
4. When the app is where you want it, press the ↵ or EXIT button.

Delete

1. On the My Apps screen, select the app you want to delete and then press the ↵ button for 3 seconds. The Option menu appears.
2. Select Delete, and then press the ↵ button.
3. Use the ◀▶ buttons to select OK, and then press the ↵ button.

Delete Multiple

1. On the My Apps screen, select an app you want to delete and then press the ↵ button for 3 seconds. The Options menu appears.
2. Select Delete Multiple, and then press the ↵ button.
3. Use the ▲▼◀▶ buttons to select apps you want to delete, and then press the ↵ button.
4. Use the ▼ buttons to select Delete, and then press the ↵ button.

View Details

1. On the My Apps screen, select the app you want to see detailed information for, and then press the ↵ button for 3 seconds. The Option menu appears.
2. Select View Details, and then press the ↵ button.
3. The Update Apps screens lists all the apps that have updates available. Select each app you want to update, and then press the ↵ button. You can also choose Select All to update all the apps listed.
4. Select Update, and then press the ↵ button.

Update Apps

1. On the My Apps screen, select any app, and then press the ↵ button for 3 seconds. The Option menu appears.
2. Select Update Apps, and then press the ↵ button.
3. The Update Apps screens lists all the apps that have updates available. Select each app you want to update, and then press the ↵ button. You can also choose Select All to update all the apps listed.
4. Select Update, and then press the ↵ button.

Screen Mirroring

The **Screen Mirroring** function lets you view the screen of your smart phone or android tablet on the TV you have connected to the product.

1. In the Home screen, select **Screen Mirroring**, and then press the ☞ button.
2. Launch **AllShare Cast** or **Screen Mirroring** on your device.
3. On your device, find the name of the product in the list of available devices and then select it.
4. The TV displays a connecting message (for example, Connecting to Android_92gb...) and then displays the connected message.
5. In a few moments, the screen of your device appears on the TV screen.
6. To stop Screen Mirroring, press the **EXIT** or **RETURN** button on the remote control, or exit the Screen Mirroring function on your smart phone.

- You can connect to a device that supports AllShare Cast. Note that all devices that have AllShare Cast may not be fully supported, depending on the manufacturer. For further information on mobile connection support, refer to the manufacturer's web site.
- When you are using the Screen Mirroring function, video stuttering or audio dropouts may occur, depending on your environment.
- Bluetooth transmissions can interfere with the Screen Mirroring signal. Before using the Screen Mirroring function, we strongly recommend that you turn off the Bluetooth function on your smart phone or smart device (tablet, etc.).

Using the Web Browser

You can access the Internet using the Web Browser application.

Select **WebBrowser** on the Home screen, and then press the ↵ button.

- When you run the Web Browser with the product connected by HDMI to a BD Wise compatible TV - and BD Wise is on - the browser is maximized to fill the screen and the TV's resolution is set to the optimal resolution automatically.
- The Web Browser is not compatible with Java applications.
- If you attempt to download a file, and the file cannot be saved, an error message will appear.
- E-commerce (purchasing products online) is not supported.
- ActiveX is not supported.
- Access may be blocked to some websites or to web browsers operated by certain businesses.

Link Browsing and Pointer Browsing

The Web Browser provides two types of browsing, Pointer Browsing and Link Browsing. When you launch the browser for the first time, Pointer Browsing is active. If you are using a mouse to navigate in the Web Browser, we recommend leaving Pointer Browsing active. If you are using your remote to navigate in the Web Browser, we recommend that you replace Pointer Browsing with Link Browsing. Link Browsing moves a highlight from one link to the next in the Web Browser and is much faster than Pointer Browsing if you are using your remote.

To activate Link Browsing, follow these steps:

1. Use the ▲▼◀▶ buttons on your remote to move the pointer to the Link Browser icon on the top right of the screen. The Link Browser icon is the third icon from the right. The pointer will be in the correct position if the icon turns blue and the words “Link Browsing” appear on the screen.
2. Press the ↵ button. Link Browsing is activated and will remain active whenever you bring up the Web Browser.

The Control Panel at a Glance

The Control Panel, which runs across the top of the screen, has a series of icons which start a number of useful functions. The icons are described below, starting with the icon on the far left of the screen.

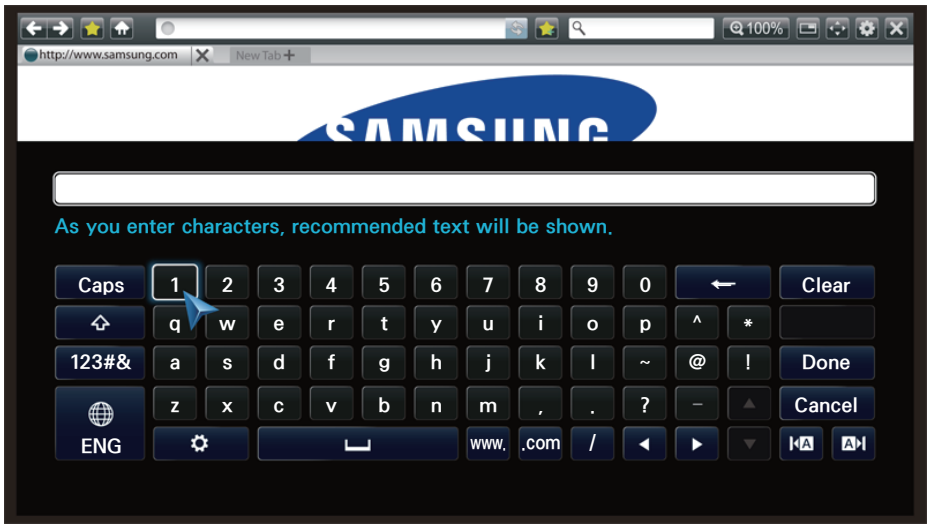
- : Moves to the previous page.
- : Moves to the next web page.
- : Displays the Bookmarks and History screen. You can bookmark the current page, select an existing bookmark, and edit and delete bookmarks. You can also view your browsing history and select a page to revisit.
- : Moves to the Home screen of the Web Browser.
- http://www.samsung.com : Lets you enter a page address manually using the keyboard pop-up.
- : Reloads the current page so that it is refreshed on the screen.
- : Adds the current page to your bookmarks.

- : Lets you search for information by entering words or characters using the keyboard pop-up. See "Using the Keyboard Pop-up".
- 100% : Lets you enlarge or shrink the screen by various percentages.
- / : Lets you switch between Pointer Browsing and Link Browsing.
- : Lets you configure the Browser's settings. See Using the Settings Menu.
- : Closes the Web Browser.
- http://www.samsung.com : Opens a new web browser tab.

Using the Keyboard Pop-up

When you click the http://www.samsung.com, the or access a data or text entry field, and then press the button, the keyboard pop-up appears.

To use the keyboard pop-up with your remote, follow these steps:



1. Use the ▲▼◀▶ buttons on your remote to move the highlight to a letter or number of your choice.
2. Press the button to enter the letter or number into the entry field.
3. To access capital letters, move the highlight to the Caps key on the top left, and then press the button. Press the button again with the Caps key highlighted to access small letters again.

4. To access symbols and additional punctuation marks, highlight the 123#& button on the left, and then press the ↵ button.
5. To delete a character you entered, move the highlight to the ← button, and then press the ↵ button.
6. To delete all the characters you entered, move the highlight to the Clear button, and then press the ↵ button.
7. When finished entering, move the highlight to the Done button, and then press the ↵ button.

If you have a wireless keyboard connected to your product, you can use the wireless keyboard to enter letters, numbers, symbols, and punctuation. Note that the wireless keyboard will work only when the keyboard popup appears and can only be used to enter letters, numbers, symbols, and punctuation.

Options on the Keyboard Pop-Up

To access the keyboard pop-up options, highlight the ⚙ button on the bottom left of the keyboard, and then press the ↵ button.

- Language : Select the language for the keyboard. You can select English, French, Russian, etc.
- Recommended Text : The keyboard suggests recommended words as you enter text. You can turn this function On or Off.
- Reset recommended text data : Reset erases the Samsung Keyboard's memory. Select Reset to erase everything that the Samsung Keyboard has learned about your writing style, including any new words you have used.
- Predict Next Letter : The keyboard predicts the next letter as you enter letters. The predictions appear in a ring around the letter you have just entered. You can select a predicted letter or move to another letter. You can turn this function On or Off.
- Accented character preview : Select this if you want to type letters with accent marks.

Using the Setting Menu

The Setting menu contains functions that control how the Browser operates and Browser security functions. To open the Setting menu, highlight the icon in the Control Panel, and then press the button. To select an option in the setting menu, highlight the option, and then press the button.

- **Enable/Disable Grabbing** : Turns the Grabber function on and off. When the Grabber function is on, you can move a web page up and down without dragging the scroll bar. The Grabber function is only available in Pointer Browsing.
- **Approved Sites** : Lets you restrict your children's access to inappropriate web pages by allowing access only to the web sites you have registered. Every time you access this function, the PIN screen appears. The first time you access this function, enter the default PIN, 0000 using the number buttons on your remote. You can change the PIN using the Reset password for the Approved Sites function. See below.
  - **Approved Sites Feature** : Turns the Approved Sites function on or off.
  - **Reset password for Approved Sites** : Change the Approved Sites password.
  - **Add current site** : Lets you add the currently displayed web site to the Approved Sites list.
  - **Manage Approved Sites** : Lets you key in URLs to add to the Approved Sites List and delete sites from the Approved Sites list. If you turn this function on and have not added any sites to the Approved Sites list, you will not be able to access any Internet sites.
- **Private Browsing On/Off** : Enable or disable the Privacy mode. When the Privacy mode is enabled, the browser does not retain the URLs of sites you visit. If you want to enable Privacy mode, select **OK**. If the Privacy mode is running, the "Stop" icon appears in front of the URL at the top of the screen. To disable Privacy mode, select it again when Privacy mode is enabled.
- **Set Search Engine** : You can set the desired Search Engine.

- **Web Browser Setting**
  - **Set as homepage** : You can set the Browser's home page.
  - **Pop-up Block** : Turns the Popup Block on and off.
  - **Page Block** : You can determine whether to block advertisements and select the URLs for which advertisements are blocked.
  - **General** : You can delete personal information such as website history and browsing data (cookies, etc.), and reset all web browser settings to their factory defaults. You can also set the Security Mode.

    Set the **Security Mode** to **On** to avoid accessing malicious/phishing sites and prevent malicious code from running.
  - **Encoding** : You can set the Encoding setting for web pages to Automatic or select the encoding format manually from a list.
  - **Pointer** : You can set the speed of the cursor when the cursor is set to Pointer and turn Smart Cursor **On** and **Off**.
  - **Browser Information** : Displays the version number and copyright information for the Web Browser.
- **Help** : Provides basic information about the operation of the Web Browser.

Depending on the web site, some of the **Web Browser Setting** functions may not be activated. Functions that are not activated are greyed out and cannot be used.

Linking Your Internet Service Accounts to the product

The Link Service Accounts function lets you link your product to your accounts with Internet services such as Pandora so that the product can log you in to the service automatically when you start the app for that service.

Register your account by going to **HOME** → **Sign In** → **Create with Facebook**.

Supported Formats

Video File Support

<table>
<tr><th>File Extention</th><th>Container</th><th>Video Codec</th><th>Resolution</th><th>Frame rate (fps)</th><th>Bit rate (Mbps)</th><th>Audio Codec</th></tr>
<tr><td rowspan="16">*.avi
*.mkv
*.asf
*.wmv
*.mp4
*.mov
*.3gp
*.vro
*.mpg
*.mpeg
*.ts
*.tp
*.trp
*.mov
*.flv
*.vob
*.svi
*.m2ts
*.mts
*.divx
*.ps</td><td rowspan="16">AVI
MKV
ASF
MP4
3GP
MOV
FLV
VRO
VOB
PS
TS
SVAF</td><td>MVC</td><td rowspan="11">1920x1080</td><td>24/25/30</td><td>60</td><td rowspan="17">AC3
LPCM
ADPCM(IMA, MS)
AAC
HE-AAC
WMA
Dolby Digital Plus
MPEG(MP3)
DTS</td></tr>
<tr><td>Motion JPEG</td><td rowspan="15">FHD: MAX 30
HD : MAX 60</td><td rowspan="15">30</td></tr>
<tr><td>H.264 BP/MP/HP</td></tr>
<tr><td>Divx 3.11 / 4 / 5 / 6</td></tr>
<tr><td>MPEG4 SP/ASP</td></tr>
<tr><td>Window Media Video v9(VC1)</td></tr>
<tr><td rowspan="2">AVS</td></tr>
<tr><td rowspan="2">MPEG2</td></tr>
<tr><td rowspan="2">MPEG1</td></tr>
<tr><td rowspan="4">Microsoft MPEG-4 v1, v2, v3</td><td rowspan="4">1280x720</td></tr>
<tr><td rowspan="3">H 263 Sorrenson</td></tr>
<tr><td rowspan="3">Window Media Video v7(WMV1), v8(WMV2)</td></tr>
<tr><td>VP6</td><td>640x480</td><td>6~30</td><td>4</td></tr>
<tr><td>*.webm</td><td>WebM</td><td>VP8</td><td>1920x1080</td><td>6~30</td><td>20</td><td>Vorbis</td></tr>
</table>

Limitations

– Even when a file is encoded by a supported codec listed in the Video File Support table, the file might not play if its content has a problem.

– Normal playback is not guaranteed if the file's container information is wrong or the file itself is corrupted.

– Files having a higher Bit rate/frame rate than indicated in the Video File Support table may stutter when played back.

– Seek (Jump) function is not available if the file's index table is damaged.

– When you playback a file remotely through a network connection, video playback may stutter depending on the network speed.

– Some USB/Digital camera devices may not be compatible with the product.

– The AVS codec is supported only by models made for China.

– The *.ps file extension is supported only by models made for China.

– The DivX codec is not supported by models made for America.

– If the original content of a file was recorded in UHD, it cannot be played.

Video decoder

– Supports up to H.264 Level 4.1. (Does not support FMO/ASO/RS)

– Does not support VC1/AP/L4.

– CODECs except for WMVv7, v8, MSMPEG4 v3, MVC, VP6

- Below 1280 x 720 : 60 frames max.
- Above 1280 x 720 : 30 frames max.

– Does not support GMC 2 or higher.

– Supports SVAF Top/Bottom, Side by Side, Left/Right view sequence type(2 ES)

– Supports BD MVC Spec.

Audio decoder

– Supports WMA 10 PRO (Up to 5.1).

– Does not support WMA lossless audio.

– Also supports the M2 profile.

– The RealAudio 10 lossless format is not supported by models made for China and Hong Kong.

– Does not support QCELP/AMR NB/WB.

– Supports vorbis (Up to 2ch).

– Supports DD+ (Up to 5.1ch)

– The DTS LBR codec is supported only for MKV / MP4 / TS containers.

Supported DivX subtitle file formats

*.ttxt, *.smi, *.srt, *.sub, *.txt

Some DivX, MKV and MP4 format discs may not play, depending on their video resolution and frame rate.

Supported Subtitle File Formats

	Name	File Extension
External	MPEG-4 Timed text	.ttxt
	SAMI	.smi
	SubRip	.srt
	SubViewer	.sub
	Micro DVD	.sub or .txt
	SubStation Alpha	.ssa
	Advanced SubStation Alpha	.ass
	Powerdivx	.psb
	SMPTE-TT Text	.xml
Internal	Xsub	AVI
	SubStation Alpha	MKV
	Advanced SubStation Alpha	MKV
	SubRip	MKV
	VobSub	MKV
	MPEG-4 Timed text	MP4
	TTML in smooth streaming	MP4
	SMPTE-TT TEXT	MP4
	SMPTE-TT PNG	MP4

Music File Support

File Extension	Type	Codec	Support Range
*.mp3	MPEG	MPEG1 Audio Layer 3	-
*.m4a *.mpa *.aac	MPEG4	AAC	-
*.flac	FLAC	FLAC	Supports up to two channels.
*.ogg	OGG	Vorbis	Supports up to two channels.
*.wma	WMA	WMA	For WMA. Supports up to 10 Pro 5.1 channels. WMA lossless audio is not supported. Supports up to M2 profile.
*.wav	wav	wav	-
*.mid *.midi	midi	midi	Type 0, type 1 and Seek is not supported. Only available with USB.
*.ape	ape	ape	NVT and X13 is not supported.
*.aif *.aiff	AIFF	AIFF	-
*.m4a	ALAC	ALAC	-

Picture File Support

File Extension	Type	Resolution
*.jpg *.jpeg	JPEG	15360x8640
*.png	PNG	4096x4096
*.bmp	BMP	4096x4096
*.mpo	MPO	15360x8640

AVCHD (Advanced Video Codec High Definition)

- This product can play back AVCHD format discs. These discs are normally recorded and used in camcorders.
- The AVCHD format is a high definition digital video camera format.
- The MPEG-4 AVC/H.264 format compresses images with greater efficiency than the conventional image compressing format.
- Some AVCHD discs use the "x.v.Color" format. This product can play back AVCHD discs that use "x.v.Color" format.
- "x.v.Color" is a trademark of Sony Corporation.
- "AVCHD" and the AVCHD logo are trademarks of Matsushita Electronic Industrial Co., Ltd. and Sony Corporation.

Some AVCHD format discs may not play, depending on the recording condition. AVCHD format discs need to be finalized.

"x.v.Color" offers a wider colour range than normal DVD camcorder discs.

Troubleshooting

Before requesting service, please try the following solutions.

PROBLEM	SOLUTION
No operation can be performed with the remote control.	Check the batteries in the remote control. They may need replacing. Operate the remote control at a distance of no more than 6.1m. Remove the batteries and hold down one or more buttons for several minutes to drain the microprocessor inside the remote control to reset it. Reinstall the batteries and try to operate the remote control again.
Disc does not play.	Ensure that the disc is installed with the label side facing up. Check the region number of the Blu-ray/DVD disc.
Disc Menu does not appear.	Ensure that the disc has disc menus.
The prohibition message appears on the screen.	This message appears when an invalid button is pressed. The Blu-ray Disc/DVD's software doesn't support the feature (e.g., angles). You've requested a title or chapter number or search time that is out of range.
Play mode differs from the Setup Menu selection.	Some of the functions selected in the Setup Menu may not work properly if the disc is not encoded with the corresponding function.
The screen ratio cannot be changed.	The Screen Ratio is fixed on your Blu-ray/DVD disc. This is not a problem with the product.
No audio.	Make sure you have selected the correct Digital Output in the Audio Options Menu.
The screen is blocked	If the HDMI output is set to a resolution your TV cannot support (for example, 1080p), you may not see a picture on your TV. Press the ■ button (on top panel) for more than 5 seconds with no disc inside on the home screen. All settings will revert to the factory settings. When the factory default settings are restored, all stored user BD data is deleted.
Forgot PIN	Press the ■ button (on top panel) for more than 5 seconds with no disc inside on the home screen. All settings including the PIN will revert to the factory settings. Don't use this unless absolutely necessary. When the factory default settings are restored, all stored user BD data is deleted.

PROBLEM	SOLUTION
If you experience other problems.	Go to the contents and find the section of the user manual that contains the explanations regarding the current problem, and follow the procedure once again. If the problem still cannot be solved, please contact your nearest Samsung authorised service centre.
The picture is noisy or distorted	Make sure that the disc is not dirty or scratched. Clean the disc.
No HDMI output.	Check the connection between the TV and the HDMI jack of the product. Check if your TV supports 576p, 720p, 1080i, 1080p HDMI input resolution.
Abnormal HDMI output screen.	If random noise appears on the screen, it means that TV does not support HDCP (High-bandwidth Digital Content Protection).
Play Multimedia files on network devices	
I can see folders shared on network devices, but I cannot see the files.	Multimedia list shows only files corresponding to the Videos, Photos, and Music categories. Files that do not correspond to these categories may not be displayed.
Video is played intermittently.	Check if the network is stable. Check if the network cable is properly connected and if the network is not overloaded. The wireless connection between the DLNA compatible device and the product is unstable. Check the connection.
Network connection between product and PC is unstable.	The IP address under the same subnetwork should be unique. If they are not, IP interference can cause this phenomenon. Check if you have a firewall enabled. If so, disable the firewall function.

PROBLEM	SOLUTION
BD-Live	
I cannot connect to the BD-Live server.	Check whether the network connection is successful or not by using the Network Status menu. Check whether the USB memory device is connected to the product. The memory device must have at least 1 GB of free space to accommodate the BD-Live service. You can check the available size in Delete BD Data. Check whether the BD-Live Internet Connection menu is set to Allow(All). If all above fails, contact the contents provider or update the product to the latest firmware.
When using the BD-Live service, an error occurs.	The memory device must have at least 1 GB of free space to accommodate the BD-Live service. You can check the available size in Delete BD Data.
Recording	
"Performance test failed." message appears, and also Schedule Recording / recording and Timeshift function does not work.	Using lower quality USB storage device not supporting Recording function can cause this kind of problem. It is recommended to use USB HDD storage device. Recommended specification of USB HDD is at least 5400 rpm. USB HDD of RAID type is not supported.
Pay channel	
Can not view Pay channel with connection CI(+) CAM	Check whether the firmware of CAM is upgraded for compatiblity with CI+ 1.3Version. Some CAM's in the market with older firmware versions are not fully interoperable with this device that is compliant to v1.3 specification. It is a problem of legacy CAMs, not this CI Plus compliant device. In this case, this problme can be resolved by applying a firmware upgrade to the CAMs. So, please contact your network operator or CAM operator for it.

When the factory default settings are restored, all stored user BD data is deleted.